

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

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DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

Soprema, Inc. 310 Quadral Drive Wadsworth, OH 44281

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Soprema Modified Bitumen Roofing Systems over Wood Decks.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews and revises NOA No. 14-0603.10 and consists of pages 1 through 63. The submitted documentation was reviewed by Jorge L. Acebo.

MIAMI-DADE COUNTY
APPROVED

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ROOFING SYSTEM APPROVAL

<u>Category:</u> Roofing

<u>Sub-Category:</u> Modified Bitumen

Material:SBSDeck Type:WoodMaximum Design Pressure:-105 psf.

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT: TABLE 1

| Product | Dimensions | Test Specification | Product Description |
|------------------|----------------------|-----------------------|---|
| Sopra G | 39" x 108' (3.5 sq.) | ASTM D4601 | Fiberglass reinforced oxidized asphalt base sheet for bonding or mechanically attaching to substrate. For use as a base/ply sheet only. |
| Modified Sopra G | 39" x 108' (3.5 sq.) | ASTM D4601 | Fiberglass reinforced modified asphalt base sheet for bonding or mechanically attaching to substrate. For use as a base/ply sheet only. |
| Soprabase | 39" x 99' (3 sq.) | ASTM D4601 | Oxidized asphalt, polyester reinforced, sand- surfaced base sheet. For use as a base/ply sheet only. |
| Soprabase S | 39" x 65' (2 sq.) | ASTM D4601 | SBS modified bitumen, polyester reinforced, sand-surfaced base sheet. For use as a base/ply sheet only. |
| Soprabase TG | 39" x 65' (2 sq.) | ASTM D4601 | SBS modified bitumen, polyester reinforced, film-surfaced base sheet. For use as a base/ply sheet only. |
| Sopra IV | 36" x 180' (5 sq.) | ASTM D2178 Type IV | Type IV fiberglass reinforced, smooth surfaced plysheet used in multi-ply systems and complies with ASTM and UL Standards. Applied in hot asphalt or cold adhesive. |
| Sopra VI | 36" x 180' (5 sq.) | ASTM D2178 Type VI | Type VI fiberglass reinforced, smooth surfaced plysheet. Sopra IV or VI are used in multi-ply systems and complies with ASTM and UL Standards. Applied in hot asphalt or cold adhesive. |
| Colvent SA | 39" x 49' (1.5 sq.) | ASTM D6163 | Fiberglass reinforced, modified bitumen membrane with 1" wide factory applied self- adhering strips on back side |
| Colvent TG | 39" x 49' (1.5 sq.) | ASTM D6163 | Fiberglass reinforced, modified bitumen membrane with 1" wide factory applied heat weldable strips on back side. |
| Colvent 180 TG | 39" x 33' (1 sq.) | ASTM D6164 | Polyester reinforced, modified bitumen membrane with 1" wide factory applied heat weld strips on back side. |



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| <u>Product</u> | Dimensions | Test Specification | Product <u>Description</u> |
|---------------------------|---------------------|-----------------------|--|
| Colvent Flam 180 TG | 39" x 33' (1 sq.) | ASTM D6164 | Polyester reinforced, modified bitumen membrane with 1" wide factory applied heat weld strips on back side. |
| Colvent Flam TG | 39" x 49' (1.5 sq.) | ASTM D6163 | Fiberglass reinforced, modified bitumen membrane with 1" wide factory applied heat weld strips on back side and a plastic burn-off film surface. |
| Elastophene Sanded | 39" x 49' (1.5 sq.) | ASTM D6163 | Fiberglass reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping. |
| Colphene Sanded | 39" x 49' (1.5 sq.) | ASTM D6163 | Fiberglass reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping. |
| Elastophene Sanded 2.2 | 39" x 49' (1.5 sq.) | ASTM D6163 | Fiberglass reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping. |
| Elastophene Sanded 3.0 | 39" x 33' (1sq.) | ASTM D6163 | Fiberglass reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripped. |
| Elastophene HS | 39" x 66' (2 sq.) | ASTM D6163 | Fiberglass reinforced modified bitumen membrane with fire retardants and sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping. |
| Elastophene PS | 39" x 49' (1.5 sq.) | ASTM D6163 | Glass reinforced modified bitumen membrane with a plastic burn-off film for heat weld bonding to the top side. Applied in hot asphalt, cold adhesive or ribbon stripping. |
| Elastophene PS 3.0 | 39" x 49' (1.5 sq.) | ASTM D6163 | Glass reinforced modified bitumen membrane with a plastic burn-off film for heat weld bonding to the top side. Applied in hot asphalt, cold adhesive or ribbon stripping. |
| Elastophene SP 2.2 | 39" x 49' (1.5 sq.) | ASTM D6163 | Glass reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film). |
| Colphene SP 2.2 | 39" x 49' (1.5 sq.) | ASTM D6163 | Glass reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film). |



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| Product | Dimensions | Test Specification | Product <u>Description</u> |
|---------------------------|---------------------|-----------------------|--|
| Elastophene SP 3.0 | 39" x 49' (1 sq.) | ASTM D6163 | Glass reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film). |
| Colphene SP 3.0 | 39" x 49' (1 sq.) | ASTM D6163 | Glass reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film). |
| Elastophene Flam | 39" x 33' (1 sq.) | ASTM D6163 | Fiberglass reinforced modified bitumen membrane covered on both sides with a plastic burn-off film. Applied by heat welding. |
| Elastophene Flam 2.2 | 39" x 49' (1.5 sq.) | ASTM D6163 | Fiberglass reinforced modified bitumen membrane covered on both sides with a plastic burn-off film. Applied by heat welding. |
| Elastophene Flam HS | 39" x 33' (1 sq.) | ASTM D6162 | Woven fiberglass/polyester composite reinforced modified bitumen membrane with fire retardants and plastic burn-off film on both sides. Applied by heat welding. |
| Elastophene HS 62 | 39" x 33' (1 sq.) | ASTM D6162 | Woven fiberglass/polyester composite reinforced modified bitumen membrane with sanded surface on both sides. Applied in hot asphalt, cold adhesive. |
| Elastophene 180 Sanded | 39" x 49' (1.5 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping. |
| Colphene 180 Sanded | 39" x 49' (1.5 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping. |
| Elastophene 180 PS | 39" x 49' (1.5 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with a sanded bottom and a plastic burn-off film on the top. Applied in hot asphalt, cold adhesive or ribbon stripping. |
| Colphene 180 PS | 39" x 49' (1.5 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with a sanded bottom and a plastic burn-off film on the top. Applied in hot asphalt, cold adhesive or ribbon stripping. |



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| Duoduot | Dimonsions | Test Specification | Product |
|----------------------------------|--|-----------------------|---|
| <u>Product</u> Elastophene GR | <u>Dimensions</u> 39" x 33' (1 sq.) | ASTM D6163 | Description Fiberglass reinforced modified bitumen membrane with fire retardants, sanded on the bottom and mineral granules on the top. Applied in hot asphalt, cold adhesive or ribbon stripping. |
| Elastophene FR GR | 39" x 33' (1 sq.) | ASTM D6163 | Fiberglass reinforced modified bitumen membrane with fire retardants, sanded on the bottom and mineral granules on the top. Applied in hot asphalt, cold adhesive or ribbon stripping. |
| Elastophene LS FR GR | 39" x 33' (1 sq.) | ASTM D6163 | Fiberglass reinforced modified bitumen membrane with fire retardants, sanded on the bottom and mineral granules on the top. Applied in hot asphalt, cold adhesive or ribbon stripping. |
| Elastophene FR+ GR | 39" x 33' (1 sq.) | ASTM D6163 | Fiberglass reinforced modified bitumen membrane with fire retardants, sanded on the bottom and mineral granules on the top. Applied in hot asphalt, cold adhesive or ribbon stripping. |
| Elastophene Flam GR | 39" x 33' (1 sq.) | ASTM D6163 | Fiberglass reinforced modified bitumen membrane with fire retardants, a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding. |
| Elastophene Flam FR GR | 39" x 33' (1 sq.) | ASTM D6163 | Fiberglass reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding. |
| Elastophene Flam LS FR GR | 39" x 33' (1 sq.) | ASTM D6163 | Fiberglass reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding. |
| Elastophene Flam FR+ GR | 39" x 33' (1 sq.) | ASTM D6163 | Fiberglass reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding. |
| Elastophene Stick | 39" x 49" (1.5 sq.) | ASTM D6163 | Self-adhered, sanded surfaced, fiberglass reinforced membranes. |
| Elastophene Flam Stick | 39" x 49" (1.5 sq.) | ASTM D6163 | Self-adhered, sanded surfaced, fiberglass reinforced membranes. |
| Sopralene Stick | 39" x 33' (1 sq.) | ASTM D6164 | Self-adhered, polyester reinforced membrane with a release film on the bottom and a sanded top. |
| Colphene Stick | 39" x 33' (1 sq.) | ASTM D6164 | Self-adhered, polyester reinforced membrane with a release film on the bottom and a sanded top. |



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| Product | Dimensions | Test Specification | Product Description |
|-----------------------------|--|-----------------------|--|
| Sopralene Flam Stick | 39" x 49' (1.5 sq.) | ASTM D6164 | Self-adhered, polyester reinforced membrane with a release film on the bottom and a sanded top. |
| Sopralene 180 Sanded | 39" x 33' (1 sq.) 39" x 26' (¾ sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping. |
| Sopralene 250 Sanded | 39" x 33' (1 sq.) 39" x 26' (¾ sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping. |
| Sopralene 180 Sanded 2.2 | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt or cold adhesive. |
| Sopralene 180 PS | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with a plastic burn-off film on the top and sanded on the bottom. |
| Sopralene 180 PS 2.2 | 39" x 49' (1.5 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with a sanded bottom and a plastic burn-off film on the top. Applied in hot asphalt, cold adhesive or ribbon stripping. |
| Sopralene 180 SP 3.5 | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film). |
| Colphene 180 SP 3.5 | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film). |
| Sopralene 180 SP 3.0 | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top |
| Sopralene 250 SP | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top |
| Soprafix Base 610 | 39" x 30' (1 sq.) | ASTM D6162 | Composite reinforced modified bitumen membrane with a film surface. Applied by mechanical attachment. |



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| <u>Product</u> | <u>Dimensions</u> | Test Specification | Product <u>Description</u> |
|-------------------|---------------------|-----------------------|--|
| Soprafix Base 611 | 39" x 33' (1.5 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with a film surface. Applied by mechanical attachment. |
| Soprafix Base 621 | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with a sanded surface. Applied by mechanical attachment. |
| Soprafix Base 630 | 39" x 33' (1 sq.) | ASTM D6162 | Composite reinforced modified membrane with a film surface. Applied by mechanical attachment. |
| Soprafix [S] | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane. Applied by mechanical attachment. |
| Soprafix Base 612 | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane. Applied by mechanical attachment. |
| Soprafix [F] | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane. Applied by mechanical attachment. |
| Soprafix Base 613 | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane. Applied by mechanical attachment. |
| Soprafix [X] | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane. Applied by mechanical attachment. |
| Soprafix Base 614 | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane. Applied by mechanical attachment. |
| Soprafix | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with a 4-inch or 5-inch wide side lap with a plastic burn-off film on the bottom and sanded on the top. Applied by mechanical attachment. Lap heat welded or sealed with an approved cold adhesive. |
| Soprafix Base 622 | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with a 4-inch or 5-inch wide side lap with a plastic burn-off film on the bottom and sanded on the top. Applied by mechanical attachment. Lap heat welded or sealed with an approved cold adhesive. |



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| Product | Dimensions | Test Specification | Product Description |
|------------------------|-------------------|-----------------------|---|
| Soprafix-e | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with a 5-inch wide side lap with a self-adhering compound and release film and sanded on the bottom and top surfaces. Applied by mechanical attachment. Lap self-adhered or sealed with approved cold adhesive. |
| Soprafix Base 641 | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with a 5-inch wide side lap with a self-adhering compound and release film and sanded on the bottom and top surfaces. Applied by mechanical attachment. Lap self-adhered or sealed with approved cold adhesive. |
| Soprafix Cap FR-651 | 39" x 33" (1 sq.) | ASTM D6163 | Fiberglass reinforced modified bitumen membrane with fire retardants, a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding. |
| Sopralene Flam 180 | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced SBS modified bitumen membrane, both sides covered with a plastic burn-off film. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film). |
| Colphene Flam 180 | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced SBS modified bitumen membrane, both sides covered with a plastic burn-off film. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film). |
| Sopralene Flam 250 | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced SBS modified bitumen membrane, both sides covered with a plastic burn-off film. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film). |
| Sopralene 180 FR GR | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with fire retardants a sanded bottom and a mineral granules top. Applied in hot asphalt, cold applied adhesive or ribbon stripping (after removal of plastic burn-off film). |
| Colphene 180 FR GR | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with fire retardants a sanded bottom and a mineral granules top. Applied in hot asphalt, cold applied adhesive or ribbon stripping (after removal of plastic burn-off film). |



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| Product | <u>Dimensions</u> | Test Specification | Product Description |
|------------------------------|-------------------|-----------------------|---|
| Sopralene 180 FR+ GR | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with fire retardants a sanded bottom and a mineral granules top. Applied in hot asphalt, cold applied adhesive or ribbon stripping (after removal of plastic burn-off film). |
| Sopralene 180 Ultra FR GR | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with fire retardants a sanded bottom and a mineral granules top. Applied in hot asphalt, cold applied adhesive or ribbon stripping (after removal of plastic burn-off film). |
| Sopralene 250 FR GR | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with fire retardants a sanded bottom and a mineral granules top. Applied in hot asphalt, cold applied adhesive or ribbon stripping (after removal of plastic burn-off film). |
| Colphene 250 FR GR | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with fire retardants a sanded bottom and a mineral granules top. Applied in hot asphalt, cold applied adhesive or ribbon stripping (after removal of plastic burn-off film). |
| Sopralene 250 Ultra FR GR | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with fire retardants a sanded bottom and a mineral granules top. Applied in hot asphalt, cold applied adhesive or ribbon stripping (after removal of plastic burn-off film). |
| Sopralene 250 FR+ GR | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with fire retardants a sanded bottom and a mineral granules top. Applied in hot asphalt, cold applied adhesive or ribbon stripping (after removal of plastic burn-off film). |
| Sopralene Flam 180 GR | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film). |
| Colphene Flam 180 GR | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film). |



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| <u>Product</u> | Dimensions | Test Specification | Product <u>Description</u> |
|-----------------------------------|-------------------|--------------------|--|
| Sopralene Flam 180 GR 3.5 | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film). |
| Sopralene Flam 180 FR GR | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film). |
| Colphene Flam 180 FR GR | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film). |
| Sopralene Flam 180 FR GR 3.5 | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film). |
| Sopralene Flam 180 Ultra FR GR | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film). |
| Sopralene Flam 250 FR GR | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film). |
| Colphene Flam 250 FR GR | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film). |
| Sopralene Flam 250 Ultra FR GR | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film). |



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| Product | Dimonsions | Test Specification | Product Description |
|-------------------------------|--|-----------------------|--|
| Sopralene Flam 180 FR+ GR | <u>Dimensions</u> 39" x 33' (1 sq.) | ASTM D6164 | Description Non-woven polyester reinforced modified bitumen membrane with fire retardants a plastic |
| 100 T K + GK | | | burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film). |
| Sopralene Flam 250 FR+ GR | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film). |
| Sopralene Flam Antirock | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding. |
| Sopralast 50 TV Alu | various | ASTM D6298 | Fiberglass reinforced modified bitumen sheeting faced with aluminum foil. Applied by heat welding of ribbon stripping (after removal of plastic burn-off film). |
| Sopralast 50 TV Alu Sanded | various | ASTM D6298 | Fiberglass reinforced modified bitumen sheeting sanded on the bottom and faced with aluminum foil. Applied in hot asphalt, cold adhesive or ribbon stripping. |
| Soprastar Flam | 39" x 33' (1 sq.) | ASTM D6162 | Polyester reinforced SBS modified bitumen membrane with a plastic burn-off film on the bottom side and a reflective white top surface. Applied by heat welding. |
| Elastocol 500 | various | ASTM D41 | Asphalt primer. |
| Elastocol Stick | various | ASTM D41 | Asphalt primer. |
| Elastocol Stick Zero | Various | ASTM D41 | Asphalt primer. |
| $ALSAN$ $Flashing^{TM}$ | 1.25 gallon pail or 3.75 gallon pail | Proprietary | One part polyurethane/bitumen resin, moisture cure compound. |
| ALSAN Polyfleece | 4", 8" or 39" wide by 50' long | Proprietary | Non-woven polyester reinforcement used in the ALSAN Flashing system. |
| COLPLY Flashing Cement | 5 gallon pail | Proprietary | Elastomeric bitumen based mastic compound. |
| Soprawalk | 39" x 26' (3/4 sq.) | Proprietary | Non-woven polyester reinforced modified bitumen membrane with a sanded bottom and mineral granules on the top. Applied by hot asphalt, cold adhesive or ribbon stripping. |



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| <u>Product</u> | <u>Dimensions</u> | Test Specification | Product <u>Description</u> |
|---|--|-----------------------|--|
| High Velocity® Insulation Adhesive III (HVIA-III) | 4 dual cartridges per carton | Proprietary | Two part elastomeric urethane foam adhesive. |
| High Velocity® Insulation Adhesive III – Green | 4 dual cartridges per carton | Proprietary | Two part elastomeric urethane foam adhesive. |
| High Velocity Insulation Adhesive PG | 5 gal. or 50 gal. | Proprietary | Two part elastomeric urethane foam adhesive. |
| Duotack | 5, 50 gallon pail | Proprietary | Two part elastomeric urethane foam adhesive. |
| Duotack Neo | 5, 50 gallon pail | Proprietary | Two part polyurethane foam adhesive. |
| COLPLY Adhesive | 5 gallon pail, 55 gallon drum or 350 gallon tote | Proprietary | Elastomeric bitumen based cold adhesive. |
| COLPLY Modified Adhesive | 5 gallon pail, 55 gallon drum or 350 gallon tote | Proprietary | Elastomeric bitumen based cold adhesive. |
| COLPLY EF Adhesive | 5 gallon pail | Proprietary | Solvent free, polymeric adhesive. |



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APPROVED INSULATIONS:

TABLE 2

| Product Name | Product Description | Manufacturer (With Current NOA) |
|---|--|---|
| ACFoam-III, ACFoam-III | Polyisocyanurate foam insulation | Atlas Roofing Corporation |
| EPS | Type IX 1.8 pcf. Polystyrene Insulation | Generic |
| XPS | Type IV 1.6 pcf. Polystyrene Insulation | Generic |
| High Density Wood Fiberboard | Wood fiber insulation board | Generic |
| Perlite Insulation | Perlite insulation board | Generic |
| DensDeck, DensDeck Prime | Water resistant gypsum board | Georgia Pacific Gypsum LLC |
| H-Shield | Polyisocyanurate foam insulation | Hunter Panels, LLC |
| ENRGY 3 | Polyisocyanurate foam insulation | Johns Manville Corp. |
| Fesco Board, Fesco Board HD | Expanded mineral fiber insulation | Johns Manville Corp. |
| Retro-Fit Board | High density Polyisocyanurate | Johns Manville |
| Multi-Max FA-3 | Polyisocyanurate foam insulation | RMax Operating, LLC |
| SECUROCK Gypsum-Fiber Roof Board | Gypsum board | USG Corp. |
| M-Shield | Polyisocyanurate foam insulation | Soprema, Inc. |
| Sopra-ISO r, Sopra-ISO+ r | Polyisocyanurate foam insulation | Soprema, Inc. |
| Sopra-ISO s, Sopra-ISO+ s | Polyisocyanurate foam insulation | Soprema, Inc. |
| Sopra-ISO x | Polyisocyanurate foam insulation | Soprema, Inc. |
| Sopraboard | Mineral fortified asphaltic cored coverboard between two layers of asphalt saturated fiberglass mat. | Soprema, Inc. |
| SopraRock MD, SopraRock MD Plus, SopraRock DD, SopraRock DD Plus | Mineral wool insulation | Soprema, Inc. |
| TopRock DD, TopRock DD Plus, MonoBoard, MonoBoard Plus | Mineral wool insulation | Roxul, Inc. |
| Structodek High Density Fiberboard Roof Insulation | High Density wood fiber insulation board | Blue Ridge Fiberboard, Inc. |
| STYROFOAM PLAZAMATE | Extruded polystyrene | The Dow Chemical Co. |
| STYROFOAM ROOFMATE | Extruded polystyrene | The Dow Chemical Co. |
| Insulfoam SP | Expanded polystyrene | Insulfoam - a division of |
| R-TECH (Type IX), R-TECH Fan Fold (Type IX) | Expanded polystyrene | Carlisle Const. Materials Insulfoam - a division of Carlisle Const. Materials |



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APPROVED INSULATIONS:

TABLE 2

| Product Name | Product Description | Manufacturer (With Current NOA) |
|---|----------------------------------|------------------------------------|
| Kingspan GreenGuard-CM | Extruded polystyrene | Kingspan Insulation LLC |
| Kingspan GreenGuard-PB6, Kingspan GreenGuard-PB6W, Kingspan GreenGuard-PB6 PLUS, Kingspan GreenGuard-PB6FA, Kingspan GreenGuard-PB38FA, Kingspan GreenGuard-PB6FA90, Kingspan GreenGuard-PB3890 | Extruded polystyrene | Kingspan Insulation LLC |
| EnergyGuard POLYISO Insulation, EnergyGuard Ultra POLYISO Insulation, EnergyGuard HD POLYISO Insulation, EnergyGuard HD Plus POLYISO Insulation | Polyisocyanurate foam insulation | GAF |
| Invinsa Roof Board, Invinsa FR Roof Board | High density Polyisocyanurate | Johns Manville Corp. |



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APPROVED FASTENERS:

TABLE 3

| Fastener Number | Product Name | Product Description | Dimensions | Manufacturer (With Current NOA) |
|--------------------|--|---|---|------------------------------------|
| 1. | Soprema #12, #14 & #15 Fastener | Fasteners for membrane or insulation attachment to wood, steel or concrete decks. | | Soprema, Inc. |
| 2. | Dekfast 12, 14 & 15 HS | Insulation fastener | | SFS Intec, Inc. |
| 3. | Dekfast 15 Belted | Insulation fastener | | SFS Intec, Inc. |
| 4. | Dekfast Galvalume Steel Hex | Galvalume AZ50 steel plate | 2 ⁷ / ₈ " x 3 ¹ / ₄ " | SFS Intec, Inc. |
| 5. | Dekfast DekFlat Round Plastic Lock Plate | Polypropylene locking plate. | 3" x 3 1/4" | SFS Intec, Inc. |
| 6. | Dekfast 2" Round Barbed Seam Plate | Stress plate | 2" diameter | SFS Intec, Inc. |
| 7. | OMG AccuTrac Plate | Galvalume square stress plate | 3" square | OMG, Inc. |
| 8. | OMG 3" Galvalume Steel Plate | Galvalume stress plate. | 3" round | OMG, Inc. |
| 9. | OMG Flat Bottom Metal Plate | Galvalume stress plate. | 3" square | OMG, Inc. |
| 10. | #12 Standard Roofgrip, #14 Roofgrip & #15 Roofgrip | Insulation fastener. | Various | OMG, Inc. |
| 11. | 3 in. Round Metal Plates | Galvalume AZ50 steel plate | 3" round | OMG, Inc. |
| 12. | OMG Plastic Plate | Polypropylene stress plate | 3.25" round | OMG, Inc. |
| 13. | Dekfast System ES #14 Plastic | Insulation fastening assembly with plate. | 3" round | SFS Intec, Inc. |
| 14. | Dekfast System ES #12 Plastic | Insulation fastening assembly with plate. | 3" round | SFS Intec, Inc. |
| 15. | Trufast #14 HD Fastener | Insulation fastener for wood, steel and concrete. | Various | Altenloh, Brinck & Co. U.S., Inc. |
| 16. | Trufast #15 EHD Fastener | Insulation fastener for wood, steel and concrete. | Various | Altenloh, Brinck & Co. U.S., Inc. |
| 17. | Trufast 3" Metal Insulation Plate | Galvalume AZ50 steel plate | 3" round | Altenloh, Brinck & Co. U.S., Inc. |
| 18. | Trufast 2" Barbed Metal Seam Plate | Stress plate | 2" diameter | Altenloh, Brinck & Co. U.S., Inc. |
| 19. | Dekfast Isofast IF/IG-C-82x40 | Galvalume AZ50 steel plate | 82 x 40 mm | SFS Intec, Inc. |
| 20. | Dekfast Isofast IFC/IW-70x70 | Galvalume AZ50 steel plate | 70 x70 mm | SFS Intec, Inc. |
| 21. | Dekfast Galvalume Steel 3" Round | Galvalume AZ50 steel plate | 3" round | SFS Intec, Inc. |



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APPROVED FASTENERS:

TABLE 3

| Fastener Number | Product Name | Product Description | Dimensions | Manufacturer (With Current NOA) |
|--------------------|--------------------------------------|--|--------------------|------------------------------------|
| 22. | Soprema 3" Round Insulation Plate | Stress plate | 3" diameter | Soprema, Inc. |
| 23. | Soprafix 2" SB Stress Plate | Stress plate | 2" diameter | Soprema, Inc. |
| 24. | Soprafix 2-3/8" SB Stress Plate | Stress plate | 2-3/8" diameter | Soprema, Inc. |
| 25. | Soprafix MBB-R | Metal Batten Bar | | Soprema, Inc. |
| 26. | Soprema 2" Seam Plate | Stress plate | 2" diameter | Soprema, Inc. |
| 27. | Soprema 3" Metal Insulation Plate | Stress plate | 3" diameter | Soprema, Inc. |
| 28. | Soprema #14 MP, #15 HD Fastener | Insulation and membrane fasteners | Various | Soprema, Inc. |
| 29. | Simplex MAXX Cap | Polymer 3" pate with two integral ring-shank nails | 3" diameter | Simplex Nails, Inc. |



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APPROVED SURFACING/COATING OPTIONS:

TABLE 4

Chosen components must be applied according to manufacturer's application instructions. Any coating, listed below, used as a surfacing, must be listed within a current NOA.

| System Number | Manufacturer | Application |
|------------------|---|--|
| 1. | Generic | Flood coat and gravel/slag with an application rate of 60 lbs./sq. & 400 lbs./sq., respectively. |
| 2. | Soprema, Inc. | Gravel applied at 400 lbs./sq., adhered with COLPLY EF Adhesive, COLPLY Adhesive, COLPLY Modified Adhesive at 4 gal./sq. |
| 3. | Karnak Corporation | Karnak (#97 AF) Fibered Aluminum Roof Coating applied at an application rate of 1.5 gal./sq. |
| 4. | Soprema, Inc. | Cural Aluminizer applied at an application rate of 2 gal./sq. |
| 5. | Thermo Manufacturing Systems, LLC | Super Prep Elastomeric Roof Maintenance Coating applied in two coats at an application rate of 1.5 gal./sq./coat. |
| 6. | Quest Construction Products LLC dba United Coatings | United Coatings Roof Mate Coating, applied in one base coat at a rate of 1.5 gal./sq., and one finish coat at a rate of 1.5 gal./sq. |
| 7. | Insulating Coatings Corporation | Astec 2000 Finish Coat applied in two base coats at a rate of 0.75 gal./sq./coat and two finish coats at a rate of 0.75 gal./sq./coat. |
| 8. | Henry Company | HE280DC White Elastomeric Roof Coating applied in two coats at an application rate of 1 gal./sq./coat. |
| 9. | National Coating Corp. | Acryshield® A500 applied in two coats at an application rate of 1 gal./sq./coat. |
| 10. | Soprema, Inc. | R Nova Plus applied in two coats. Base coat is applied at 3 gal/sq. (1.2 L/m^2) and allowed to dry. A top coat is applied at 1 gal/sq. (0.4 L/m^2) . |
| 11. | Generic | Semi-ceramic coated colored granules. |



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EVIDENCE SUBMITTED:

| Test Agency/Identifier | Report | <u>Name</u> | <u>Date</u> |
|-------------------------|--------------------|----------------------|-------------|
| Trinity ERD | 2779.11.05-R1 | TAS-114 | 04/18/07 |
| Timity ERE | 2761.09.03 | TAS 114 | 09/02/03 |
| | 2778.07.05 | TAS-114 | 07/15/05 |
| | S32840.06.10-R1 | TAS 117-B | 12/11/14 |
| | 2766.12.03 | TAS 114 | 12/01/03 |
| | S43400.08.14-5 | ASTM D6163 | 08/26/14 |
| | S43400.08.14-6 | ASTM D6164 | 08/26/14 |
| | S43400.08.14-7-R1 | ASTM D6164 | 11/20/14 |
| | S43400.09.14-9 | ASTM D6164 | 09/02/14 |
| | S43400.09.14-10 | ASTM D6298 | 09/08/14 |
| | S45010.02.14 | ASTM D6506 | 02/07/14 |
| | S43400.08.14-4-R1 | ASTM D6163 | 10/24/14 |
| | S44110.09.14-3 | ASTM D6163 | 09/08/14 |
| | S44110.09.14-7C | ASTM D6164 | 09/02/14 |
| | S44220.09.14-1 | ASTM D6162 | 09/08/14 |
| | S11440.11.10-4 | ASTM D2178 | 11/17/10 |
| | S11440.11.10-3-R2 | ASTM D4601/TAS 117-B | 08/26/14 |
| | S44220.09.14-7A | ASTM D4601 | 09/08/14 |
| | S11440.12.10-1-R1 | ASTM D6163 | 06/07/12 |
| | S32700.12.10-R2 | ASTM D6162 | 07/07/14 |
| | S35860.12.11-1-R1 | ASTM D2178 | 12/12/14 |
| | S35860.05.12-1-R2 | ASTM D6163 | 03/14/13 |
| | S35860.05.12-2-R3 | ASTM D6164 | 08/29/14 |
| | S35860.05.12-3-R1 | ASTM D6164 | 03/14/13 |
| | S35860.09.12-R2 | ASTM D6163 | 12/12/14 |
| | S2000.02.13 | TAS 114 | 02/01/13 |
| | S43210.11.14 | ASTM D1876 | 11/10/14 |
| | S39320.01.12-R1 | TAS 114/FM 4474 | 05/24/12 |
| | S45070.08.13 | TAS 114/FM 4474 | 08/13/13 |
| | 7075.11.14-R1 | FM 4474/TAS 117 | 01/15/15 |
| | M45560.10.13-1-R2 | ASTM D4897/TAS 117 | 12/11/14 |
| | S39970.07.12-2 | ASTM D6164 | 07/12/12 |
| | S39970.07.12-R1 | ASTM D6162 | 12/12/14 |
| | S39970.07.12-1B-R1 | ASTM D6163 | 12/12/14 |
| Factory Mutual Research | 3029098 | FM 4470 | 10/25/07 |
| Corporation | 3024311 | FM 4470 | 11/01/06 |
| | 3036182 | FM 4470 | 07/31/09 |
| | 3014751 | FM 4470 | 08/27/03 |
| | 3X3A7.AM | FM 4470 | 09/08/94 |
| | 3045101 | FM 4470 | 11/05/12 |
| | 3047439 | FM 4470 | 07/22/13 |
| | 3045734 | FM 4470 | 04/04/12 |
| | 3049322 | FM 4470 | 01/17/14 |
| | 3044801 | FM 4470 | 02/27/12 |
| | 3046765 | FM 4470 | 02/15/13 |



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EVIDENCE SUBMITTED: (CONTINUED)

| Test Agency/Identifier | Report | <u>Name</u> | Date |
|----------------------------|------------------|---------------------|-------------|
| Factory Mutual Research | 3002351 | FM 4470 | 02/28/03 |
| Corporation | 3054633 | FM 4470 | 12/18/15 |
| | RR201595 | FM 4470 | 06/17/15 |
| Underwriters Laboratories | R11436 | UL 790 | 06/18/13 |
| IRT of S. Florida | 990028 | TAS 114 | 9/30/99 |
| ITS / Warnock Hersey | | ASTM D 5147 | 05/27/93 |
| PRI Construction Materials | SOP-049-02-01 | ASTM D1644/D2196 | 05/31/12 |
| Technologies, LLC | SOP-043-02-01 | ASTM D4601 | 02/27/12 |
| | SOP-042-02-01 | ASTM D4601 | 02/27/12 |
| | SOP-041-02-01 | ASTM D2178 | 02/27/12 |
| | SOP-040-02-01 | ASTM D2178 | 02/27/12 |
| | SOP-010-02-01.03 | TAS-138 | 07/26/11 |
| | SOP-050-02-01 | ASTM D3019 | 07/12/12 |
| | SOP-056-02-01 | Physical Properties | 09/12/12 |
| | EATC-001-02-01 | ASTM D4586 | 04/07/09 |



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APPROVED ASSEMBLIES:

Membrane Type: SBS

Deck Type1I: Wood, Insulated

19/32" or greater plywood or wood plank **Deck Description:**

System Type A(1): Anchor sheet mechanically fastened, all layers of insulation adhered with

approved asphalt or adhesive.

All General and System Limitations apply.

Slip Sheet: One or more plies of approved ASTM D4601 applied loose laid to deck prior to

(Optional) the attachment of vapor barrier.

One layer Sopra G, Soprabase, Soprabase S, Elastophene 180 Sanded, Colphene Anchor Sheet:

> 180 Sanded, Sopralene 180 Sanded, Sopralene 180 Sanded 2.2, Sopralene 250 Sanded, Sopralene 250 SP, mechanically attached with FBC HVHZ nails and tin-caps spaced 6" o.c. in a 4" wide side lab and 6" o.c. in three evenly spaced

rows in the field of the sheet.

One or more layers of any of the following insulations.

Base Insulation Layer (Optional) Insulation Fasteners Fastener (Table 3) Density/ft²

ACFoam-II, ACFoam-III, Sopra-ISO s, Sopra-ISO+ s, ENRGY 3, Multi-Max FA-3, Sopra-ISO x,

H-Shield, M-Shield, Sopra-ISO r

Minimum 1.5" thick N/A N/A

Insulation Fasteners Top Insulation Laver Fastener (Table 3) Density/ft²

DensDeck, SECUROCK Gypsum-Fiber Roof Board

Minimum 1/4" thick N/A N/A

Sopraboard

Minimum 1/8" thick N/A N/A

Note: All insulation shall be adhered to the vapor barrier in full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs./100 ft² or Soprema High Velocity[®] Insulation Adhesive III (HVIA-III), High Velocity® Insulation Adhesive III -Green, High Velocity® Insulation Adhesive PG, Duotack, Duotack Neo, Millennium One Step Foamable Adhesive, Millennium One Step Green Foamable Adhesive or Millennium PG-1 Low Viscosity Insulation Adhesive in 3/4" wide ribbons, Insta-Stik adhesive in 1" wide ribbons, TITESET Roofing Adhesive, 3M Polyurethane Foam Insulation Adhesive CR-20 or FasTac in 3" wide ribbons, spaced 6" o.c. (Adhesive is applied atop fastener rows). Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as a final membrane substrate.2

Primer: Elastocol 500, Elastocol Stick, Elastocol Stick Zero at a rate of 1 gal./sq.

(Optional)

Base Sheet: One layer Colvent TG, Colvent 180 TG, Colvent Flam TG*, Colvent Flam 180

TG*, torch-applied.

*Requires torch-applied ply/cap membrane.



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Ply Sheet: (Optional)

Elastophene Flam*, Elastophene Flam 2.2*, Elastophene Flam HS*, Elastophene SP 2.2, Colphene SP 2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene Flam 180*, Colphene Flam 180*, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Soprafix, Soprafix Base 622, Sopralene Flam 250*, Sopralene 250 SP, torch-applied.

Or

Elastophene Sanded, Colphene Sanded, Elastophene Sanded 2.2, Elastophene Sanded 3.0, Elastophene HS, Elastophene HS 62, Elastophene PS*, Elastophene PS 3.0*, Elastophene 180 Sanded, Colphene 180 Sanded, Sopralene 180 Sanded 2.2, Soprabase, Elastophene 180 PS*, Colphene 180 PS*, Sopralene 180 PS 2.2*, Sopralene 180 Sanded, Sopralene 180 PS* or Sopralene 250 Sanded adhered in hot asphalt at 25 lbs./sq. to sand surfaced base membrane.

*Requires torch-applied cap membrane.

Membrane:

Elastophene Flam GR, Elastophene Flam FR GR, Elastophene Flam LS FR GR, Elastophene Flam FR+ GR, Soprastar Flam, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 GR 3.5, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 180 Ultra FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 Ultra FR GR, Sopralene Flam 250 FR+ GR, Sopralene Flam 250

Or

One layer of Elastophene GR, Elastophene FR GR, Elastophene LS FR GR, Elastophene FR+ GR, Sopralene 180 FR GR, Colphene 180 FR GR, Sopralene 180 FR+ GR, Sopralene 250 FR GR, Colphene 250 FR GR, Sopralene 250 FR GR, Sopralene 250 TV Alu Sanded adhered in hot asphalt at 25 lbs./sq. to sand surfaced base or ply membrane.

Surfacing:

Surfacing is Optional on granular surfaced field cap membranes. Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications.

Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.

Maximum Design

Pressure: -60 psf. (See General Limitation #7.)



NOA No.: 15-0709.17 Expiration Date: 03/01/21 Approval Date: 04/07/16 Page 21 of 63 **Membrane:** SBS

Deck Type 1I: Wood, Insulated

Deck Description: 19/32" or greater plywood or wood plank

System Type A(2): Anchor sheet mechanically fastened, all layers of insulation adhered with

approved asphalt or adhesive.

All General and System Limitations apply.

Slip Sheet: One or more plies of approved ASTM D4601 applied loose laid to deck prior to

(Optional) the attachment of vapor retarder.

Anchor Sheet: One layer Sopra G, Soprabase S, mechanically attached with FBC

HVHZ nails and tin-caps spaced 6" o.c. in a 4" wide side lab and 6" o.c. in three

evenly spaced rows in the field of the sheet.

One or more layers of the following.

Insulation Layer Insulation Fasteners Fastener (Table 3) Fastener

DensDeck

Minimum ¼" thick N/A N/A

Note: All insulation shall be adhered to the anchor sheet in full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs./100 ft², or in High Velocity® Insulation Adhesive III (HVIA-III), High Velocity® Insulation Adhesive III –Green or High Velocity® Insulation Adhesive PG, Duotack, Duotack Neo, Millennium One Step Foamable Adhesive, Millennium One Step Green Foamable Adhesive or Millennium PG-1 Low Viscosity Insulation adhesive in ¾" wide ribbons, Insta-Stik adhesive in 1" wide ribbons, TITESET Roofing Adhesive, 3M Polyurethane Foam Insulation Adhesive CR-20 or FasTac in 3" wide ribbons, spaced 6" o.c. (Adhesive is applied atop fastener rows). Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Primer: Elastocol 500 applied at a rate of 1 gal./sq. to DensDeck prior to base membrane

application.

Base Sheet: One layer of Colvent SA, self-adhered.

Ply Sheet: None

Membrane: Elastophene Flam GR, Elastophene Flam FR GR, Elastophene Flam LS FR GR,

Elastophene Flam FR+ GR, Soprastar Flam, Sopralene Flam 180 GR, Colphene

Flam 180 GR, Sopralene Flam 180 GR 3.5, Sopralene Flam 180 FR GR,

Sopralene Flam 180 Ultra FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR, Sopralene Flam 180 FR GR, Sopralene Flam 250 FR GR, Sopralene Flam 250 Ultra FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 FR GR, Sopralen

Surfacing: Surfacing is Optional on granular surfaced field cap membranes.

Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for

applicable fire classifications

Apply any coating listed in Table 4 above, or any Miami-Dade approved coating

system.

Maximum Design

Pressure: -60 psf. (See General Limitation #7.)

MIAMI-DADE COUNTY
APPROVED

NOA No.: 15-0709.17 Expiration Date: 03/01/21 Approval Date: 04/07/16 Page 22 of 63 **Membrane Type:** SBS

Deck Type1I: Wood, Insulated

Deck Description: 19/32" or greater plywood or wood plank

System Type A(3): Anchor sheet mechanically fastened, all layers of insulation adhered with

approved asphalt or adhesive.

All General and System Limitations apply.

Slip Sheet: One or more plies of approved ASTM D4601 applied loose laid to deck prior to

(Optional) the attachment of vapor barrier.

Anchor Sheet: One layer Sopra G, Soprabase S, Elastophene 180 Sanded, Colphene

180 Sanded, Sopralene 180 Sanded, Sopralene 180 Sanded 2.2, Sopralene 250 Sanded or Sopralene 250 SP mechanically attached with FBC HVHZ nails and tin-caps spaced 6" o.c. in a 4" wide side lab and 6" o.c. in three evenly spaced

rows in the field of the sheet.

Primer: Elastocol 500, Elastocol Stick, Elastocol Stick Zero applied at a rate of 1

gal./sq., to top surface of any insulation, base or ply sheet prior to application of

next layer.

One or more layers of any of the following insulations.

Base Insulation Layer (Optional) Insulation Fasteners Fastener (Table 3) Density/ft² ACFoam-II, ACFoam-III, Sopra-ISO s, Sopra-ISO+ s, ENRGY 3, Multi-Max FA-3, Sopra-ISO x, Sopra-ISO r, M-Shield, H-Shield

Minimum 1.5" thick N/A N/A

Top Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

DensDeck, SECUROCK Gypsum-Fiber Roof Board

Minimum 1/4" thick N/A N/A

Sopraboard

Minimum 1/8" thick N/A N/A

Note: All insulation shall be adhered to the vapor barrier in full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs./100 ft² or in Soprema High Velocity® Insulation Adhesive III (HVIA-III), High Velocity® Insulation Adhesive III —Green, High Velocity® Insulation Adhesive PG, Duotack, Duotack Neo, Millennium One Step Foamable Adhesive, Millennium One Step Green Foamable Adhesive or Millennium PG-1 Low Viscosity Insulation Adhesive in ¾" wide ribbons, Insta-Stik adhesive in 1" wide ribbons, TITESET Roofing Adhesive, 3M Polyurethane Foam Insulation Adhesive CR-20 or FasTac in 3" wide ribbons, spaced 6" o.c. (Adhesive is applied atop fastener rows). Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as a final membrane substrate.

Primer: Elastocol 500, Elastocol Stick, Elastocol Stick Zero at a rate of 1 gal./sq. for

(**Optional**) Colvent TG or Colvent 180 TG.



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Base Sheet:

One layer of Elastophene Flam*, Elastophene Flam 2.2*, Elastophene Flam HS*, Elastophene SP 2.2, Colphene SP 2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene Flam 180*, Colphene Flam 180*, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Soprafix, Soprafix Base 622, Sopralene Flam 250*, Sopralene 250 SP, Colvent TG, Colvent 180 TG, Colvent Flam TG*, Colvent Flam 180 TG*, torch-applied.

Or

One layer of Elastophene Sanded, Colphene Sanded, Elastophene Sanded 2.2, Elastophene Sanded 3.0, Elastophene HS, Elastophene HS 62, Elastophene PS*, Elastophene PS 3.0*, Elastophene 180 Sanded, Colphene 180 Sanded, Sopralene 180 Sanded 2.2, Soprabase, Elastophene 180 PS*, Colphene 180 PS*, Sopralene 180 PS 2.2*, Sopralene 180 Sanded, Sopralene 180 PS* or Sopralene 250 Sanded adhered in hot asphalt at 25 lbs./sq., or applied in COLPLY Adhesive, COLPLY Modified Adhesive.

*Requires torch-applied ply or cap membrane.

Ply Sheet: (Optional)

Elastophene Flam*, Elastophene Flam 2.2*, Elastophene Flam HS*, Elastophene SP 2.2, Colphene SP 2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene Flam 180*, Colphene Flam 180*, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Soprafix, Soprafix Base 622, Sopralene Flam 250* or Sopralene 250 SP, torch-applied.

Or

Elastophene Sanded, Colphene Sanded, Elastophene Sanded 2.2, Elastophene Sanded 3.0, Elastophene HS, Elastophene HS 62, Elastophene PS*, Elastophene PS 3.0*, Elastophene 180 Sanded, Colphene 180 Sanded, Sopralene 180 Sanded 2.2, Soprabase, Elastophene 180 PS*, Colphene 180 PS*, Sopralene 180 PS 2.2*, Sopralene 180 Sanded, Sopralene 180 PS* or Sopralene 250 Sanded adhered in hot asphalt at 25 lbs./sq., or applied in COLPLY Adhesive, COLPLY Modified Adhesive to sand surface base membrane.

*Requires torch-applied cap membrane.

Membrane:

Elastophene Flam GR, Elastophene Flam FR GR, Elastophene Flam LS FR GR, Elastophene Flam FR+ GR, Soprastar Flam, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 GR 3.5, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 180 Ultra FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 Ultra FR GR, Sopralene Flam 250 FR+ GR, Sopralene Flam 250

Ot

One layer of Elastophene GR, Elastophene FR GR, Elastophene LS FR GR, Elastophene FR+ GR, Soprastar Sanded, Sopralene 180 FR GR, Colphene 180 FR GR, Sopralene 180 FR+ GR, Sopralene 180 Ultra FR GR, Sopralene 250 FR GR, Colphene 250 FR GR, Sopralene 250 FR+ GR, Sopralene 250 Ultra FR GR, Sopralast 50 TV Alu Sanded adhered in hot asphalt at 25 lbs./sq., or applied in COLPLY Adhesive, COLPLY Modified Adhesive to sand surfaced base or ply membrane.



NOA No.: 15-0709.17 Expiration Date: 03/01/21 Approval Date: 04/07/16 Page 24 of 63 **Surfacing:** Surfacing is Optional on granular surfaced field cap membranes.

Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for

applicable fire classifications.

Apply any coating listed in Table 4 above, or any Miami-Dade approved coating

system.

Maximum Design

Pressure: -60 psf. (See General Limitation #7.)



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Deck Type 1I: Wood, Insulated

Deck Description: 19/32" or greater plywood or wood plank

System Type C(1): All layers of insulation simultaneously attached.

All General and System Limitations apply.

Slip Sheet: One or more plies of approved ASTM D4601 applied loose laid to deck.

(Optional)

One or more layers of the following.

Base Insulation Layer (Optional) Insulation Fasteners Fastener

(Table 3) Density/ft²

Approved EPS or XPS, or any approved polyisocyanurate insulation listed in Table 2

(flat or tapered)

Minimum 1" thick N/A N/A

Note: All layers of insulation shall be simultaneously fastened; see layer below for fasteners and density.

| Top Insulation Layer | Insulation Fasteners (Table 3) | Fastener Density/ft ² |
|---|--------------------------------|-------------------------------------|
| DensDeck, SECUROCK Gypsum-Fiber Roof Board Minimum 0.25" thick | 1, 2, 10, 15, 28 (#14) | 1:1.6 ft² |
| Sopraboard Minimum 1/8" thick | 1, 2, 10, 15, 28 (#14) | 1:1.6 ft ² |

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners shall be increased maintaining the same fastener density. (See Roofing Application Standard RAS 117 for fastening details.)

Primer: Elastocol 500, Elastocol Stick, Elastocol Stick Zero applied at a rate of 1

(Optional) gal./sq., to top surface of any insulation, base or ply sheet prior to application of

next layer.

Base Sheet: One layer Colvent TG, Colvent 180 TG, Colvent Flam TG*, Colvent Flam 180

TG*, torch-applied.

*Requires torch-applied ply or cap membrane.

Ply Sheet: One or more layers of Elastophene Flam*, Elastophene Flam 2.2*, Elastophene (**Optional**) Flam HS*, Elastophene SP 2.2, Colphene SP 2.2, Elastophene SP 3.0, Colphene

SP 3.0, Sopralene Flam 180*, Colphene Flam 180*, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Soprafix, Soprafix Base 622,

Sopralene Flam 250*, Sopralene 250 SP, torch-applied.

Or

Elastophene Sanded, Colphene Sanded, Elastophene Sanded 2.2, Elastophene Sanded 3.0, Elastophene HS, Elastophene HS 62, Elastophene PS*, Elastophene PS 3.0*, Elastophene 180 Sanded, Colphene 180 Sanded, Sopralene 180 Sanded 2.2, Soprabase, Elastophene 180 PS*, Colphene 180 PS*, Sopralene 180 PS 2.2*, Sopralene 180 Sanded, Sopralene 180 PS* or Sopralene 250 Sanded adhered in hot asphalt at 25 lbs./sq. to sand surfaced base membrane.

*Requires torch-applied cap membrane.

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Membrane:

Elastophene Flam GR, Elastophene Flam FR GR, Elastophene Flam LS FR GR, Elastophene Flam FR+ GR, Soprastar Flam, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 GR 3.5, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 180 Ultra FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 Ultra FR GR, Sopralene Flam 250 FR+ GR, Sopralast 50 TV Alu, Sopralene Flam Antirock, torch-applied.

Or

One layer of Elastophene GR, Elastophene FR GR, Elastophene LS FR GR, Elastophene FR+ GR, Sopralene 180 FR GR, Colphene 180 FR GR, Sopralene 180 FR+ GR, Sopralene 180 Ultra FR GR, Sopralene 250 FR GR, Colphene 250 FR GR, Sopralene 250 FR+ GR, Sopralene 250 Ultra FR GR, Sopralast 50 TV Alu Sanded adhered in hot asphalt at 25 lbs./sq. to sand surfaced base or ply membrane.

Surfacing:

Surfacing is Optional on granular surfaced field cap membranes.

Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for

applicable fire classifications.

Apply any coating listed in Table 4 above, or any Miami-Dade approved coating

system.

Maximum Design

-52.5 psf. (See General Limitation #7.) **Pressure:**



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Deck Type 1I: Wood, Insulated

Deck Description: 19/32" or greater plywood or wood plank

System Type C(2): All layers of insulation simultaneously attached.

All General and System Limitations apply.

Slip Sheet: One or more plies of approved ASTM D4601 applied loose laid to deck.

(Optional)

One or more layers of the following.

Insulation Layer Insulation Fasteners Fastener

(Table 3) Density/ft²

DensDeck

Minimum ¹/₄" thick 15 or 28 (#14) 1:1.6 ft²

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners shall be increased maintaining the same fastener density. (See Roofing Application Standard RAS 117 for fastening details.)

Primer: Elastocol 500 applied at a rate of 1 gal/sq to DensDeck prior to base membrane

application.

Base Sheet: One layer Colvent SA, Sopralene Stick or Colphene Stick, self-adhered.

Ply Sheet: None

Membrane: Elastophene Flam GR, Elastophene Flam FR GR, Elastophene Flam LS FR GR,

Elastophene Flam FR+ GR, Soprastar Flam, Sopralene Flam 180 GR, Colphene

Flam 180 GR, Sopralene Flam 180 GR 3.5, Sopralene Flam 180 FR GR,

Sopralene Flam 180 Ultra FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Sopralene Flam 250 Ultra FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 FR+ GR, Sopralest 50 TV Alu, Sopralene Flam Antirock, torch-applied.

Or

(Only with Sopralene Stick and Colphene Stick) Elastophene GR, Elastophene FR GR, Elastophene LS FR GR, Elastophene FR+ GR, Sopralene 180 FR GR, Sopralene 180 Ultra FR GR, Colphene 180 FR GR, Sopralene 180 FR+ GR, Sopralene 250 FR GR, Sopralene 250 FR GR, Colphene 250 FR GR, Sopralene 250 FR+ GR, Sopralene 250 TV Alu Sanded, adhered in hot asphalt at 25 lbs./sq. or applied in COLPLY Adhesive, COLPLY Modified Adhesive at a

rate of 1.5 gal./sq. to sand surfaced base or ply membrane

Surfacing: Surfacing is Optional on granular surfaced field cap membranes.

Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for

applicable fire classifications

Apply any coating listed in Table 4 above, or any Miami-Dade approved coating

system.

Maximum Design

Pressure: -52.5 psf. (See General Limitation #7.)



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Deck Type 1I: Wood, Insulated

Deck Description: 19/32" or greater plywood or wood plank

System Type C(3): All layers of insulation simultaneously attached.

All General and System Limitations apply.

Slip Sheet: One or more plies of approved ASTM D4601 applied loose laid to deck.

(Optional)

One or more layers of the following.

Base Insulation Layer (Optional)

Insulation Fasteners
(Table 3)

Fastener
Density/ft²

Approved EPS or XPS or any approved polyisocyanurate insulation listed in Table 2

(flat or tapered)

Minimum 1" thick N/A N/A

Note: All layers of insulation shall be simultaneously fastened; see layer below for fasteners and density.

| Top Insulation Layer | Insulation Fasteners (Table 3) | Fastener Density/ft² |
|---|-----------------------------------|-------------------------|
| DensDeck, SECUROCK Gypsum-Fiber Roof Board Minimum 0.25" thick | 1, 2, 10, 15, 28 (#14) | 1:1.6 ft ² |
| Sopraboard Minimum 1/8" thick | 1, 2, 10, 15, 28 (#14) | 1:1.6 ft ² |

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners shall be increased maintaining the same fastener density. (See Roofing Application Standard RAS 117 for fastening details.)

Primer: Elastocol 500, Elastocol Stick, Elastocol Stick Zero applied at a rate of 1 gal./sq., to top surface of any insulation, base or ply sheet prior to application of next layer.

Base Sheet: One layer of Elastophene Flam*, Elastophene Flam 2.2*, Elastophene Flam HS*,

Elastophene SP 2.2, Colphene SP 2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene Flam 180*, Colphene Flam 180*, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Soprafix, Soprafix Base 622, Sopralene Flam 250*,

Sopralene 250 SP, Colvent TG or Colvent 180 TG, torch-applied.

Or

One layer of Elastophene Sanded, Colphene Sanded, Elastophene Sanded 2.2, Elastophene Sanded 3.0, Elastophene HS, Elastophene HS 62, Elastophene PS*, Elastophene PS 3.0*, Elastophene 180 Sanded, Colphene 180 Sanded, Sopralene 180 Sanded 2.2, Soprabase, Elastophene 180 PS*, Colphene 180 PS*, Sopralene 180 PS 2.2*, Sopralene 180 Sanded, Sopralene 180 PS* or Sopralene 250 Sanded adhered in hot asphalt at 25 lbs./sq., or applied in COLPLY Adhesive, COLPLY Modified Adhesive.

*Requires torch-applied ply or cap membrane.



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Ply Sheet: (Optional)

Elastophene Flam*, Elastophene Flam 2.2*, Elastophene Flam HS*, Elastophene SP 2.2, Colphene SP 2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene Flam 180*, Colphene Flam 180*, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Soprafix, Soprafix Base 622, Sopralene Flam 250*, Sopralene 250 SP, torchapplied.

Or

Elastophene Sanded, Colphene Sanded, Elastophene Sanded 2.2, Elastophene Sanded 3.0, Elastophene HS, Elastophene HS 62, Elastophene PS*, Elastophene PS 3.0*, Elastophene 180 Sanded, Colphene 180 Sanded, Sopralene 180 Sanded 2.2, Soprabase, Elastophene 180 PS*, Colphene 180 PS*, Sopralene 180 PS 2.2, Sopralene 180 Sanded, Sopralene 180 PS* or Sopralene 250 Sanded adhered in hot asphalt at 25 lbs./sq., or applied in COLPLY Adhesive, COLPLY Modified Adhesive to sand surfaced base membrane.

Membrane:

Elastophene Flam GR, Elastophene Flam FR GR, Elastophene Flam LS FR GR, Elastophene Flam FR+ GR, Soprastar Flam, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 GR 3.5, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 180 Ultra FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 Ultra FR GR, Sopralene Flam 250 FR+ GR, Sopralast 50 TV Alu, Sopralene Flam Antirock, torch-applied.

Or

One layer of Elastophene GR, Elastophene FR GR, Elastophene LS FR GR, Elastophene FR+ GR, Sopralene 180 FR GR, Colphene 180 FR GR, Sopralene 180 FR+ GR, Sopralene 180 Ultra FR GR, Sopralene 250 FR GR, Colphene 250 FR GR, Sopralene 250 FR+ GR, Sopralene 250 Ultra FR GR, Sopralast 50 TV Alu Sanded adhered in hot asphalt at 25 lbs./sq., or applied in COLPLY Adhesive, COLPLY Modified Adhesive to sand surfaced base or ply membrane.

Surfacing:

Surfacing is Optional on granular surfaced field cap membranes. Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications.

Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.

Maximum

Design Pressure: -52.5 psf. (See General Limitation #7.)



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Membrane Type: SBS

Deck Type 1I: Wood, Insulated

Deck Description: Min. 19/32" plywood or wood plank

System Type D(1): All layers of insulation and base sheet simultaneously attached.

Deck: Decking is attached to spans spaced maximum 24" o.c. with SPAX No. $10 \times 2\frac{1}{2}$ "

screws with a maximum spacing of 6" o.c.

All General and System Limitations apply.

Slip Sheet: One or more plies Sopra-G or Modified Sopra-G, loose-laid.

(Optional)

Insulation Layer(s): Insulation Fasteners Fastener

(Table 3) Density/ft²

TopRock DD, TopRock DD Plus, SopraRock DD, SopraRock DD Plus

Min. 2-inch thick N/A N/A

STYROFOAM PLAZAMATE

Min. 1.5-inch thick N/A N/A

ACFoam III, SOPRA-ISO PLUS s

Min. 1.3-inch thick N/A N/A

ENRGY 3 FR, ENRGY 3 AGF, ENRGY 3 CGF, H-Shield CG, SOPRA-ISO PLUS r (flat or tapered), Fesco Board HD, MonoBoard, MonoBoard Plus, SopraRock MD, SopraRock MD Plus, Kingspan GreenGuard-CM, STYROFOAM ROOFMATE, Insulfoam SP (Type IX)

Min. 1-inch thick N/A N/A

ACFoam II, SOPRA-ISO s, EnergyGuard POLYISO Insulation, EnergyGuard Ultra POLYISO Insulation, EnergyGuard HD POLYISO Insulation, EnergyGuard HD Plus POLYISO Insulation, ENRGY 3, H-Shield, SOPRA-ISO r, M-Shield, Multi-Max FA-3, SOPRA-ISO x (flat or tapered), Insulfoam EPS (Type IX), R-TECH (Type IX), R-TECH Fan Fold (Type IX)

Min. 0.5-inch N/A N/A

Fesco Board (flat or tapered)

Homogeneous: Minimum 0.75" thick N/A N/A

Laminated: Minimum 1.5" thick

Retro-Fit Board, DuraBoard, Structodek High Density Fiberboard Roof Insulation

Minimum 0.5" thick N/A N/A

Kingspan GreenGuard-PB6, Kingspan GreenGuard-PB6W, Kingspan GreenGuard-PB6 PLUS, Kingspan GreenGuard-PB6FA, Kingspan GreenGuard-PB38FA, Kingspan GreenGuard-PB78PA, Kingspan GreenGuard-PB78PA

PB6FA90, Kingspan GreenGuard-PB3890

Minimum 0.375" thick N/A N/A



NOA No.: 15-0709.17 Expiration Date: 03/01/21 Approval Date: 04/07/16 Page 31 of 63 **Insulation Layer(s): (Continued) Insulation Fasteners Fastener** Density/ft² (Table 3)

DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, Invinsa Roof Board, **Invinsa FR Roof Board**

Minimum 0.25" thick N/A N/A

Sopraboard

Minimum 0.125" thick N/A N/A

Note: Insulation layer shall have preliminary attachment, prior to the installation of the base/anchor sheet, at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density. (See Roofing Application Standard RAS 117 for fastening details.)

Base Sheet: One ply of Soprafix Base 621 or Soprafix Base 622 fastened to the deck as

described below:

Soprema #14 MP Fasteners with Soprafix 2-inch Seam Plates spaced 6" o.c. **Fastening:**

within the minimum 4" wide, hot-air welded side laps.

Plv Sheet: None

Soprastar Sanded, Elastophene GR, Elastophene LS FR GR, Elastophene FR GR, Membrane:

Elastophene FR+ GR, Sopralene 180 FR GR, Colphene 180 FR GR, Sopralene 180 FR+ GR, Sopralene 180 Ultra FR GR, Sopralene 250 FR GR, Colphene 250 FR GR, Sopralene 250 FR+ GR, Sopralene 250 Ultra FR GR, Sopralast 50 TV

Alu Sanded applied in COLPLY Adhesive at 1.5 - 2.0 gal./square.

Surfacing: Surfacing is Optional on granular surfaced field cap membranes.

> Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for

applicable fire classifications.

Apply any coating listed in Table 4 above, or any Miami-Dade approved coating

system.

Maximum Design

Pressure: -82.5 psf. (See General Limitation #7)



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SBS Membrane Type:

Deck Type 1I: Wood, Insulated

Min. 19/32" plywood or wood plank **Deck Description:**

System Type D(2): All layers of insulation and base sheet simultaneously attached.

Decking is attached to spans spaced maximum 24" o.c. with SPAX No. 10 x 2½" Deck:

screws spaced maximum 6" o.c.

All General and System Limitations apply.

Slip Sheet: One or more plies Sopra-G or Modified Sopra-G, loose-laid.

(Optional)

Insulation Layer(s): Insulation Fasteners Fastener

> Density/ft² (Table 3)

TopRock DD, TopRock DD Plus, SopraRock DD, SopraRock DD Plus

Min. 2-inch thick N/A N/A

STYROFOAM PLAZAMATE

Min. 1.5-inch thick N/A N/A

ACFoam III, SOPRA-ISO PLUS s

Min. 1.3-inch thick N/A N/A

ENRGY 3 FR, ENRGY 3 AGF, ENRGY 3 CGF, H-Shield CG, SOPRA-ISO PLUS r (flat or tapered), Fesco Board HD, MonoBoard, MonoBoard Plus, SopraRock MD, SopraRock MD Plus, Kingspan GreenGuard-CM, STYROFOAM ROOFMATE, Insulfoam SP (Type IX)

Min. 1-inch thick N/A

ACFoam II, SOPRA-ISO s, EnergyGuard POLYISO Insulation, EnergyGuard Ultra POLYISO Insulation, EnergyGuard HD POLYISO Insulation, EnergyGuard HD Plus POLYISO Insulation, ENRGY 3, H-Shield, SOPRA-ISO r, M-Shield, Multi-Max FA-3, SOPRA-ISO x (flat or tapered), Insulfoam EPS (Type IX), R-TECH (Type IX), R-TECH Fan Fold (Type IX)

Min. 0.5-inch N/A N/A

Fesco Board (flat or tapered)

Homogeneous: Minimum 0.75" thick N/A N/A

Laminated: Minimum 1.5" thick

Retro-Fit Board, DuraBoard, Structodek High Density Fiberboard Roof Insulation

Minimum 0.5" thick N/A N/A

Kingspan GreenGuard-PB6, Kingspan GreenGuard-PB6W, Kingspan GreenGuard-PB6 PLUS, Kingspan GreenGuard-PB6FA, Kingspan GreenGuard-PB38FA, Kingspan GreenGuard-

PB6FA90, Kingspan GreenGuard-PB3890

Minimum 0.375" thick N/A N/A



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Insulation Layer(s): (Continued)

Insulation Fasteners Fastener

(Table 3)

Fastener

Density/ft²

DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, Invinsa Roof Board, Invinsa FR Roof Board

Minimum 0.25" thick N/A N/A

Sopraboard

Minimum 0.125" thick N/A N/A

Note: Insulation layer shall have preliminary attachment, prior to the installation of the base/anchor sheet, at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density. (See Roofing Application Standard RAS 117 for fastening details.)

Base Sheet: One ply of Soprafix Base 610, Soprafix Base 611, Soprafix Base 612 or Soprafix

Base 614 fastened to the deck as described below:

Fastening: Soprema #14 MP Fasteners with Soprafix 2-inch Seam Plates spaced 6" o.c.

within the minimum 4" wide, hot-air welded side laps.

Ply Sheet: Elastophene Flam HS, Elastophene Flam 2.2, Elastophene Flam, Sopralene Flam 180, Colphene Flam 180, Sopralene Flam 250, Elastophene SP 2.2, Colphene SP

2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene 180 SP 3.0, Sopralene 180

SP 3.5, Colphene 180 SP 3.5 or Sopralene 250 SP, torch-applied.

Membrane: Elastophene Flam GR, Elastophene Flam FR GR, Elastophene Flam LS FR GR,

Elastophene Flam FR+ GR, Soprastar Flam, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 GR 3.5, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 180 Ultra FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 FR GR, Sopralene Flam 250 FR+ GR, Sopralest 50 TV Alu, Sopralene Flam Antirock, Soprafix Cap FR-651, torch-

applied

Surfacing: Surfacing is Optional on granular surfaced field cap membranes.

Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for

applicable fire classifications.

Apply any coating listed in Table 4 above, or any Miami-Dade approved coating

system.

Maximum Design

Pressure: -82.5 psf. (See General Limitation #7)



NOA No.: 15-0709.17 Expiration Date: 03/01/21 Approval Date: 04/07/16 Page 34 of 63 **Membrane Type:** SBS

Deck Type 1I: Wood, Insulated

Deck Description: Min. 19/32" plywood or wood plank

System Type D(3): All layers of insulation and membrane simultaneously attached.

Deck: Decking is attached to spans spaced maximum 24" o.c. with SPAX No. $10 \times 2\frac{1}{2}$ "

screws spaced maximum 6" o.c.

All General and System Limitations apply.

Slip Sheet: One or more plies Sopra-G or Modified Sopra-G, loose-laid.

(Optional)

Insulation Layer(s): Insulation Fasteners Fastener

(Table 3) Density/ft²

TopRock DD, TopRock DD Plus, SopraRock DD, SopraRock DD Plus

Min. 2-inch thick N/A N/A

STYROFOAM PLAZAMATE

Min. 1.5-inch thick N/A N/A

ACFoam III, SOPRA-ISO PLUS s

Min. 1.3-inch thick N/A N/A

ENRGY 3 FR, ENRGY 3 AGF, ENRGY 3 CGF, H-Shield CG, SOPRA-ISO PLUS r (flat or tapered), Fesco Board HD, MonoBoard, MonoBoard Plus, SopraRock MD, SopraRock MD Plus, Kingspan GreenGuard-CM, STYROFOAM ROOFMATE, Insulfoam SP (Type IX)

Min. 1-inch thick N/A N/A

ACFoam II, SOPRA-ISO s, EnergyGuard POLYISO Insulation, EnergyGuard Ultra POLYISO Insulation, EnergyGuard HD POLYISO Insulation, EnergyGuard HD Plus POLYISO Insulation, ENRGY 3, H-Shield, SOPRA-ISO r, M-Shield, Multi-Max FA-3, SOPRA-ISO x (flat or tapered), Insulfoam EPS (Type IX), R-TECH (Type IX), R-TECH Fan Fold (Type IX)

Min. 0.5-inch N/A N/A

Fesco Board (flat or tapered)

Homogeneous: Minimum 0.75" thick N/A N/A

Laminated: Minimum 1.5" thick

Retro-Fit Board, DuraBoard, Structodek High Density Fiberboard Roof Insulation

Minimum 0.5" thick N/A N/A

Kingspan GreenGuard-PB6, Kingspan GreenGuard-PB6W, Kingspan GreenGuard-PB6 PLUS, Kingspan GreenGuard-PB6FA, Kingspan GreenGuard-PB38FA, Kingsp

PB6FA90, Kingspan GreenGuard-PB3890

Minimum 0.375" thick N/A N/A



NOA No.: 15-0709.17 Expiration Date: 03/01/21 Approval Date: 04/07/16 Page 35 of 63 Insulation Layer(s): (Continued)

Insulation Fasteners
(Table 3)

Fastener
Density/ft²

DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, Invinsa Roof Board, Invinsa FR Roof Board

Minimum 0.25" thick N/A N/A

Sopraboard

Minimum 0.125" thick N/A N/A

Note: Insulation layer shall have preliminary attachment, prior to the installation of the base/anchor sheet, at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density. (See Roofing Application Standard RAS 117 for fastening details.)

Membrane: One ply of Unilay fastened to the deck as described below:

Fastening: Soprema #14 MP Fasteners with Soprafix 2 3/8-inch SB Stress Plates spaced 6"

o.c. within the minimum 5" wide, hot-air welded side laps.

Surfacing: Surfacing is Optional on granular surfaced field cap membranes.

Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for

applicable fire classifications.

Apply any coating listed in Table 4 above, or any Miami-Dade approved coating

system.

Maximum Design

Pressure: -82.5 psf. (See General Limitation #7)



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Deck Type 1I: Wood, Insulated

Deck Description: Min. 19/32" plywood or wood plank

System Type D(4): All layers of insulation and base sheet simultaneously attached.

Deck: Decking is attached to spans spaced maximum 24" o.c. with #10 wood screws

spaced maximum 6" o.c.

All General and System Limitations apply.

Slip Sheet: One or more plies of approved ASTM D4601 applied loose laid to deck.

(Optional)

| Insulation Layer | Insulation Fasteners (Table 3) | Fastener Density/ft ² |
|---|--------------------------------|-------------------------------------|
| Any approved polyisocyanurate listed in Table 2(flat or tapered) Minimum 1" thick | N/A | N/A |
| Approved EPS or XPS Minimum 1" thick | N/A | N/A |
| Approved High Density Wood Fiberboard Minimum 0.5" thick | N/A | N/A |
| Approved Perlite Insulation Minimum 0.75" thick | N/A | N/A |
| DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof I Minimum 0.5" thick | Board N/A | N/A |
| Sopraboard Minimum 1/8" thick | N/A | N/A |

Note: Insulation layer shall have preliminary attachment, prior to the installation of the base/anchor sheet, at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density. (See Roofing Application Standard RAS 117 for fastening details.)

Primer: Elastocol 500, Elastocol Stick, Elastocol Stick Zero applied at a rate of 1 gal./sq.,

to top surface of any base or ply sheet prior to application of next layer

Base Sheet: One ply of Soprafix, Soprafix Base 622, Soprafix [S]*, Soprafix Base 612*,

Soprafix [F]*, Soprafix Base 613*, Soprafix [X]*, Soprafix Base 614*, Soprafix-e

or Soprafix Base 641, fastened to the deck as described below:

*Requires torch-applied ply or cap membrane.

Fastening: Attach base sheet using Soprafix MBB-R with Soprema #15 fasteners spaced 6"

o.c. in the minimum 5" wide lap.



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Sopralene Flam 180*, Colphene Flam 180*, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Sopralene Flam 250*, Sopralene 250 SP, Colvent 180 TG, Colvent Flam 180 TG* torch-applied.

*Requires torch-applied cap membrane.

Membrane:

Soprastar Flam, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 GR 3.5, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 180 Ultra FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 Ultra FR GR, Sopralene Flam 250 FR+ GR, Sopralene Flam Antirock, Soprafix Cap FR-651, torch-applied.

Or

Elastophene GR, Elastophene FR GR, Elastophene LS FR GR, Sopralene 180 FR GR, Colphene 180 FR GR, Sopralene 180 FR+GR, Sopralene 180 Ultra FR GR, Sopralene 250 FR GR, Colphene 250 FR GR, Sopralene 250 Ultra FR GR, Sopralene 250 FR+GR, Sopralene 250 TV Alu Sanded or Soprastar Sanded adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or in COLPLY EF Adhesive, COLPLY Adhesive, COLPLY Modified Adhesive at 1.5 – 2.0 gallons/square. The 3" wide side laps are adhered with the same adhesive or torch-applied.

Surfacing:

Surfacing is Optional on granular surfaced field cap membranes.

Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for

applicable fire classifications.

Apply any coating listed in Table 4 above, or any Miami-Dade approved coating

system.

Maximum Design

Pressure: -90 psf. (See General Limitation #7)

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Deck Type 1I: Wood, Non-Insulated

Deck Description: Min. 19/32" plywood (15/32" for re-roof) or wood plank

System Type E(1): Non-Insulated, Base sheet mechanically attached.

Deck: Decking is attached to spans spaced maximum 24" o.c. with 8d ring shank nails

spaced maximum 6" o.c.

All General and System Limitations apply.

Slip Sheet: One or more plies Sopra-G or Modified Sopra-G, loose-laid.

(Optional)

Base Sheet: Sopra 4897 or Soprabase TG* fastened to the deck as described below:

*Requires torch-applied ply or cap.

Fastening: Simplex MAXX Cap Fasteners spaced 9" o.c. at the minimum 2" wide side laps

and 12" o.c. in two (2), equally spaced, staggered center rows

Ply Sheet: Elastophene Flam HS*, Elastophene Flam 2.2*, Elastophene Flam*, Sopralene (Optional) Flam 180*, Colphene Flam 180*, Sopralene Flam 250*, Elastophene SP 2.2,

Colphene SP 2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Sopralene 250 SP, torch-applied

*Requires torch-applied Cap

Membrane: Elastophene Flam GR, Elastophene Flam FR GR, Elastophene Flam LS FR GR,

Elastophene Flam FR+ GR, Soprastar Flam, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 GR 3.5, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 180 Ultra FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 FR GR, Sopralene Flam 250 FR+ GR, Sopralest 50 TV Alu, Sopralene Flam Antirock, Soprafix Cap FR-651, torch-

applied.

Or

Soprastar Sanded, Elastophene GR, Elastophene LS FR GR, Elastophene FR GR, Elastophene FR+ GR, Sopralene 180 FR GR, Colphene 180 FR GR, Sopralene 180 FR+ GR, Sopralene 250 FR GR, Colphene 250 FR GR, Sopralene 250 FR GR, Sopralene 250 TV

Alu Sanded applied in hot asphalt.

Surfacing: Surfacing is Optional on granular surfaced field cap membranes.

Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for

applicable fire classifications.

Apply any coating listed in Table 4 above, or any Miami-Dade approved coating

system.

Maximum Design

Pressure: -52.5 psf. (See General Limitation #7)



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Deck Type 1I: Wood, Non-Insulated

Deck Description: Min. 19/32" plywood (15/32" for re-roof) or wood plank

System Type E(2): Non-Insulated, Base sheet mechanically attached.

Deck: Decking is attached to spans spaced maximum 24" o.c. with 8d ring shank nails

spaced maximum 6" o.c.

All General and System Limitations apply.

Slip Sheet: One or more plies Sopra-G or Modified Sopra-G, loose-laid.

(Optional)

Base Sheet: Sopra 4897 or Soprabase TG fastened to the deck as described below:

Fastening: Simplex MAXX Cap Fasteners spaced 9" o.c. at the minimum 2" wide side laps

and 12" o.c. in two (2), equally spaced, staggered center rows

Ply Sheet: Elastophene SP 2.2, Colphene SP 2.2, Elastophene SP 3.0, Colphene SP 3.0,

Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Sopralene 250

SP, torch-applied

Membrane: Elastophene FR GR, Elastophene GR, Elastophene LS FR GR, Elastophene FR+

GR, Sopralene 180 FR GR, Colphene 180 FR GR, Sopralene 180 Ultra FR GR, Sopralene 180 FR+ GR, Sopralene 250 FR GR, Colphene 250 FR GR, Sopralene 250 Ultra FR GR, Sopralene 250 FR+ GR, Sopralast 50 TV Alu Sanded or Soprastar Sanded applied Colply Adhesive, Colply Modified Adhesive or Colply

EF Adhesive.

Surfacing: Surfacing is Optional on granular surfaced field cap membranes.

Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for

applicable fire classifications.

Apply any coating listed in Table 4 above, or any Miami-Dade approved coating

system.

Maximum Design

Pressure: -52.5 psf. (See General Limitation #7)



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Deck Type 1I: Wood, Non-Insulated

Deck Description: Min. 19/32" plywood (15/32" for re-roof) or wood plank

System Type E(3): Non-Insulated, Base sheet mechanically attached.

Deck: Decking is attached to spans spaced maximum 24" o.c. with 8d ring shank nails

spaced maximum 6" o.c.

All General and System Limitations apply.

Slip Sheet: One or more plies Sopra-G or Modified Sopra-G, loose-laid.

(Optional)

Base Sheet: Sopra-G, Modified Sopra-G, Sopra 4897 or Soprabase fastened to the deck as

described below:

Fastening: Simplex MAXX Cap Fasteners spaced 9" o.c. at the minimum 2" wide side laps

and 12" o.c. in two (2), equally spaced, staggered center rows

Ply Sheet: Sopra-G, Modified Sopra-G, Soprabase S, Sopra IV, Sopra VI,

(Optional) Elastophene HS 62, Elastophene Sanded, Colphene Sanded, Elastophene Sanded

2.2, Elastophene Sanded 3.0, Elastophene HS, Sopralene 180 Sanded 2.2,

Colphene 180 Sanded, Sopralene 180 Sanded, Sopralene 250 Sanded, Elastophene PS*, Elastophene PS 3.0*, Sopralene 180 PS 2.2*, Colphene 180 PS*, Sopralene

180 PS* applied in hot asphalt.

*Requires torch-applied Cap.

Membrane: (With Sopra 4897 or listed ply sheets) Elastophene Flam GR, Elastophene Flam

FR GR, Elastophene Flam LS FR GR, Elastophene Flam FR+ GR, Soprastar Flam, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 GR 3.5, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR

GR 3.5, Sopralene Flam 180 Ultra FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 Ultra FR GR, Sopralene Flam 250 FR+ GR, Sopralene Flam

Antirock, Soprafix Cap FR-651, torch-applied.

Or

Soprastar Sanded, Elastophene GR, Elastophene LS FR GR, Elastophene FR GR, Elastophene FR+ GR, Sopralene 180 FR GR, Colphene 180 FR GR, Sopralene 180 FR+ GR, Sopralene 250 FR GR, Colphene 250 FR GR, Sopralene 250 FR+ GR, Sopralene 250 TV

Alu Sanded applied in hot asphalt.

Surfacing: Surfacing is Optional on granular surfaced field cap membranes.

Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for

applicable fire classifications.

Apply any coating listed in Table 4 above, or any Miami-Dade approved coating

system.

Maximum Design

Pressure: -52.5 psf. (See General Limitation #7)



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SBS Membrane Type:

Deck Type 1I: Wood, Non-Insulated

Min. 19/32" plywood (15/32" for re-roof) or wood plank **Deck Description:**

System Type E(4): Non-Insulated, Base sheet mechanically attached.

Decking is attached to spans spaced maximum 24" o.c. with 8d ring shank nails Deck:

spaced maximum 6" o.c.

All General and System Limitations apply.

One or more plies Sopra-G or Modified Sopra-G, loose-laid. **Slip Sheet:**

(Optional)

Base Sheet: Sopra-G, Modified Sopra-G, Sopra 4897 or Soprabase fastened to the deck as

described below:

Fastening: Simplex MAXX Cap Fasteners spaced 9" o.c. at the minimum 2" wide side laps

and 12" o.c. in two (2), equally spaced, staggered center rows

Ply Sheet: Elastophene HS 62, Elastophene Sanded, Colphene Sanded, Elastophene Sanded

> 2.2, Elastophene Sanded 3.0, Elastophene HS, Sopralene 180 Sanded 2.2, Colphene 180 Sanded, Sopralene 180 Sanded, Sopralene 250 Sanded applied in

hot asphalt.

Membrane: Soprastar Sanded, Elastophene GR, Elastophene LS FR GR, Elastophene FR GR,

> Elastophene FR+ GR, Sopralene 180 FR GR, Colphene 180 FR GR, Sopralene 180 FR+ GR, Sopralene 180 Ultra FR GR, Sopralene 250 FR GR, Colphene 250 FR GR, Sopralene 250 FR+ GR, Sopralene 250 Ultra FR GR, Sopralast 50 TV Alu Sanded applied in Colply Adhesive, Colply Modified Adhesive or Colply EF

Adhesive.

Surfacing: Surfacing is Optional on granular surfaced field cap membranes.

> Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for

applicable fire classifications.

Apply any coating listed in Table 4 above, or any Miami-Dade approved coating

system.

Maximum Design

-52.5 psf. (See General Limitation #7) **Pressure:**



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Deck Type 1I: Wood, Non-Insulated

Deck Description: Min. 19/32" plywood (15/32" for re-roof) or wood plank

System Type E(5): Non-Insulated, Base sheet mechanically attached.

Deck: Decking is attached to spans spaced maximum 24" o.c. with 8d ring shank nails

spaced maximum 6" o.c.

All General and System Limitations apply.

Slip Sheet: One or more plies Sopra-G or Modified Sopra-G, loose-laid.

(Optional)

Base Sheet: Soprabase fastened to the deck as described below:

Fastening: Simplex MAXX Cap Fasteners spaced 9" o.c. at the minimum 2" wide side laps

and 12" o.c. in two (2), equally spaced, staggered center rows

Ply Sheet: Elastophene HS 62, Elastophene Sanded, Colphene Sanded, Elastophene Sanded

(Optional) 2.2, Elastophene Sanded 3.0, Elastophene HS, Sopralene 180 Sanded 2.2,

Colphene 180 Sanded, Sopralene 180 Sanded, Sopralene 250 Sanded, Elastophene PS*, Elastophene PS 3.0*, Sopralene 180 PS 2.2*, Colphene 180 PS*, Sopralene 180 PS* in Colply Adhesive, Colply Modified Adhesive or Colply EF Adhesive.

*Requires torch-applied Cap.

Membrane: Elastophene Flam GR, Elastophene Flam FR GR, Elastophene Flam LS FR GR,

Elastophene Flam FR+ GR, Soprastar Flam, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 GR 3.5, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 180 Ultra FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 FR GR, Sopralene Flam 250 FR+ GR, Sopralest 50 TV Alu, Sopralene Flam Antirock, Soprafix Cap FR-651, torch-

applied.

Or

Soprastar Sanded, Elastophene GR, Elastophene LS FR GR, Elastophene FR GR, Elastophene FR+ GR, Sopralene 180 FR GR, Colphene 180 FR GR, Sopralene 180 FR+ GR, Sopralene 250 FR GR, Colphene 250 FR GR, Sopralene 250 FR GR, Sopralene 250 FR GR, Sopralene 250 TV Alu Sanded applied in Colply Adhesive, Colply Modified Adhesive or Colply EF

Adhesive.

Surfacing: Surfacing is Optional on granular surfaced field cap membranes.

Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for

applicable fire classifications.

Apply any coating listed in Table 4 above, or any Miami-Dade approved coating

system.

Maximum Design

Pressure: -52.5 psf. (See General Limitation #7)



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Deck Type 1I: Wood, Non-Insulated

Deck Description: Min. 19/32" plywood (15/32" for re-roof) or wood plank

System Type E(6): Non-Insulated, Base sheet mechanically attached.

Deck: Decking is attached to spans spaced maximum 24" o.c. with 8d ring shank nails

spaced maximum 6" o.c.

All General and System Limitations apply.

Slip Sheet: One or more plies of approved ASTM D4601 applied loose laid to deck.

(Optional)

Base Sheet: Soprabase fastened to the deck as described below:

Fastening: Simplex MAXX Cap Fasteners spaced 9" o.c. at the minimum 2" wide side laps

and 12" o.c. in two (2), equally spaced, staggered center rows.

Primer: Elastocol Stick Zero to base sheet at 1.0 gal/square.

Ply Sheet: Elastophene Stick, Sopralene Stick, Colphene Stick, Elastophene Flam Stick*,

Sopralene Flam Stick*, self-adhered.

*Requires torch-applied Cap

Membrane: Soprastar Flam, Elastophene Flam GR, Elastophene Flam LS FR GR, Elastophene

Flam FR GR, Elastophene Flam FR+ GR, Soprafix Cap FR 651, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 FR+ GR, Sopralene Flam 250 FR+

Ultra FR GR, Sopralast 50 TV ALU, torch-applied.

Or

Soprastar Sanded, Elastophene GR, Elastophene LS FR GR, Elastophene FR GR, Elastophene FR+ GR, Sopralene 180 FR GR, Colphene 180 FR GR, Sopralene 180 FR+ GR, Sopralene 250 FR GR, Colphene 250 FR GR, Sopralene 250 FR+ GR, Sopralene 250 Ultra FR GR, Sopralest 50 TV

ALU Sanded applied in hot asphalt.

Surfacing: Surfacing is Optional on granular surfaced field cap membranes.

Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for

applicable fire classifications.

Apply any coating listed in Table 4 above, or any Miami-Dade approved coating

system.

Maximum Design

Pressure: -52.5 psf. (See General Limitation #7)

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Deck Type 1I: Wood, Insulated

Deck Description: Min. 19/32" plywood or wood plank

System Type E(7): Non-Insulated, Base sheet mechanically attached.

Deck: Decking is attached to spans spaced maximum 24" o.c. with SPAX No. 10 x 2½"

screws spaced maximum 6" o.c.

All General and System Limitations apply.

Slip Sheet: One or more plies Sopra-G or Modified Sopra-G, loose-laid.

(Optional)

Base Sheet: One ply of Soprafix Base 621 or Soprafix Base 622 fastened to the deck as

described below:

Fastening: Soprema #14 MP Fasteners with Soprafix 2-inch Seam Plates spaced 6" o.c.

within the minimum 4" wide, hot-air welded side laps.

Ply Sheet: None

Membrane: Soprastar Sanded, Elastophene GR, Elastophene LS FR GR, Elastophene FR GR

applied in COLPLY Adhesive at 1.5 - 2.0 gal./square.

Surfacing: Surfacing is Optional on granular surfaced field cap membranes.

Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for

applicable fire classifications.

Apply any coating listed in Table 4 above, or any Miami-Dade approved coating

system.

Maximum Design

Pressure: -82.5 psf. (See General Limitation #7)

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Deck Type 1I: Wood, Insulated

Deck Description: Min. 19/32" plywood or wood plank

System Type E(8): Non-Insulated, Base sheet mechanically attached.

Deck: Decking is attached to spans spaced maximum 24" o.c. with SPAX No. 10 x 2½"

screws spaced maximum 6" o.c.

All General and System Limitations apply.

Slip Sheet: One or more plies Sopra-G or Modified Sopra-G, loose-laid.

(Optional)

Base Sheet: One ply of Soprafix Base 610, Soprafix Base 611, Soprafix Base 612 or Soprafix

Base 614 fastened to the deck as described below:

Fastening: Soprema #14 MP Fasteners with Soprafix 2-inch Seam Plates spaced 6" o.c.

within the minimum 4" wide, hot-air welded side laps.

Ply Sheet: Elastophene Flam HS, Elastophene Flam 2.2, Elastophene Flam, Sopralene Flam

(Optional) 180, Colphene Flam 180, Sopralene Flam 250, Elastophene SP 2.2, Colphene SP

2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene 180 SP 3.0, Sopralene 180

SP 3.5, Colphene 180 SP 3.5 or Sopralene 250 SP, torch-applied.

Membrane: Elastophene Flam GR, Elastophene Flam FR GR, Elastophene Flam LS FR GR,

Elastophene Flam FR+ GR, Soprastar Flam, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 GR 3.5, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 180 Ultra FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 FR GR, Sopralene Flam 250 FR+ GR, Sopralest 50 TV Alu, Sopralene Flam Antirock, Soprafix Cap FR-651, torch-

applied

Surfacing: Surfacing is Optional on granular surfaced field cap membranes.

Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for

applicable fire classifications.

Apply any coating listed in Table 4 above, or any Miami-Dade approved coating

system.

Maximum Design

Pressure: -82.5 psf. (See General Limitation #7)



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(Optional)

Deck Type 1I: Wood, Non-Insulated

Deck Description: Min. 19/32" CDX plywood or wood plank

System Type E(9): Base sheet mechanically fastened to substrate.

Deck: Decking is attached to spans spaced maximum 24" o.c. with SPAX #10 x 2-1/2"

long decking screws spaced maximum 6" o.c. at panel edges and intermediate

supports.

All General and System Limitations apply.

Slip Sheet: One or more plies of approved ASTM D4601 applied loose laid to deck.

Base Sheet: One ply of Soprafix Base 611*, Soprafix Base 610*, Soprafix Base 630*,

Soprafix Base 621, Soprafix, Soprafix Base 622, Soprafix [S]*, Soprafix Base 612*, Soprafix [F]*, Soprafix Base 613*, Soprafix [X]* or Soprafix Base 614*

fastened to the deck as described below:

*Requires torch-applied cap membrane.

Fastening #1: Attach base sheet using Trufast #14 HD Fasteners with Trufast 2" Barbed Metal

Seam Plates or Soprema #14 MP Fasteners with Soprafix 2" Seam Plates spaced

12" o.c. in the minimum 4" wide, hot-air-welded side laps.

(Meets Maximum Design Pressure of -52.5 psf; See General Limitation #7.)

Fastening #2: Attach base sheet using Trufast #14 HD Fasteners and Soprema #14 MP

Fasteners with Trufast 2" Barbed Metal Seam Plates and Soprafix 2" Seam Plates or Trufast #14 HD Fasteners and Soprema #14 MP Fasteners with Trufast 2.4" Scoop Seam Plates and Soprema 2.4" Seam Plates spaced 6" o.c. in the minimum

4" wide, hot-air-welded side laps.

(Meets Maximum Design Pressure of -82.5 psf; See General Limitation #7.)

Membrane: Elastophene Flam GR, Elastophene Flam FR GR, Elastophene Flam LS FR GR,

Elastophene Flam FR+ GR, Soprastar Flam, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 GR 3.5, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 180 Ultra FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 Ultra FR GR, Sopralene Flam 250 FR+ GR, Sopralest 50 TV Alu, Sopralene Flam Antirock, Soprafix Cap FR-651, torch-

applied.

Or

Elastophene GR, Elastophene FR GR, Elastophene LS FR GR, Sopralene 180 FR GR, Colphene 180 FR GR, Sopralene 180 FR+ GR, Sopralene 180 Ultra FR GR, Sopralene 250 FR GR, Colphene 250 FR GR, Sopralene 250 Ultra FR GR, Sopralene 250 FR+ GR, Sopralene 250 TV Alu Sanded or Soprastar Sanded adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or applied in COLPLY EF Adhesive, COLPLY Adhesive, COLPLY Modified Adhesive at 1.5 – 2.0 gallons/square. The 3" wide

side laps are adhered with the same adhesive or torch-applied.

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Surfacing: Surfacing is Optional on granular surfaced field cap membranes.

Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for

applicable fire classifications.

Apply any coating listed in Table 4 above, or any Miami-Dade approved coating

system.

Maximum Design

Pressure: See Fastening Requirements above.



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Deck Type 1I: Wood, Non-Insulated

Deck Description: Min. 19/32" plywood (15/32" for re-roof) or wood plank

System Type E(10): Non-Insulated, Base sheet mechanically attached.

Deck: Decking is attached to spans spaced maximum 24" o.c. with #10 wood screws

spaced maximum 6" o.c.

All General and System Limitations apply.

Slip Sheet: One or more plies Sopra-G or Modified Sopra-G, loose-laid.

(Optional)

Base Sheet: Sopra 4897 or Soprabase TG* fastened to the deck as described below:

*Requires torch-applied ply or cap.

Fastening: Simplex MAXX Cap Fasteners spaced 6" o.c. at the minimum 2" wide side laps

and 6" o.c. in two (2), equally spaced, staggered center rows

Ply Sheet: Elastophene Flam HS*, Elastophene Flam 2.2*, Elastophene Flam*, Sopralene

(Optional) Flam 180*, Colphene Flam 180*, Sopralene Flam 250*, Elastophene SP 2.2,

Colphene SP 2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Sopralene 250 SP, torch-applied

*Requires torch-applied Cap

Membrane: Elastophene Flam GR, Elastophene Flam FR GR, Elastophene Flam LS FR GR,

Elastophene Flam FR+ GR, Soprastar Flam, Sopralene Flam 180 GR, Colphene

Flam 180 GR, Sopralene Flam 180 GR 3.5, Sopralene Flam 180 FR GR,

Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 180

Ultra FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 Ultra FR GR, Sopralene Flam 250 FR+ GR, Sopralene Flam Antirock, Soprafix Cap FR-

651, torch-applied.

or

Soprastar Sanded, Elastophene GR, Elastophene LS FR GR, Elastophene FR GR, Elastophene FR+ GR, Sopralene 180 FR GR, Colphene 180 FR GR, Sopralene 180 FR+ GR, Sopralene 250 FR GR, Colphene 250 FR GR, Sopralene 250 FR GR, Sopralene 250 TV

Alu Sanded applied in hot asphalt.

Surfacing: Surfacing is Optional on granular surfaced field cap membranes.

Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for

applicable fire classifications.

Apply any coating listed in Table 4 above, or any Miami-Dade approved coating

system.

Maximum Design

Pressure: -90 psf. (See General Limitation #7)



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Deck Type 1I: Wood, Non-Insulated

Deck Description: Min. 19/32" plywood (15/32" for re-roof) or wood plank

System Type E(11): Non-Insulated, Base sheet mechanically attached.

Deck: Decking is attached to spans spaced maximum 24" o.c. with #10 wood screws

spaced maximum 6" o.c.

All General and System Limitations apply.

Slip Sheet: One or more plies Sopra-G or Modified Sopra-G, loose-laid.

(Optional)

Base Sheet: Sopra 4897 or Soprabase TG fastened to the deck as described below:

Fastening: Simplex MAXX Cap Fasteners spaced 6" o.c. at the minimum 2" wide side laps

and 6" o.c. in two (2), equally spaced, staggered center rows

Ply Sheet: Elastophene SP 2.2, Colphene SP 2.2, Elastophene SP 3.0, Colphene SP 3.0,

Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Sopralene

250 SP, torch-applied

Membrane: Elastophene FR GR, Elastophene GR, Elastophene LS FR GR, Elastophene FR+

GR, Sopralene 180 FR GR, Colphene 180 FR GR, Sopralene 180 Ultra FR GR, Sopralene 180 FR+ GR, Sopralene 250 FR GR, Colphene 250 FR GR, Sopralene 250 Ultra FR GR, Sopralene 250 FR+ GR, Sopralest 50 TV Alu Sanded or Soprastar Sanded applied Colply Adhesive, Colply Modified Adhesive or Colply

EF Adhesive.

Surfacing: Surfacing is Optional on granular surfaced field cap membranes.

Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for

applicable fire classifications.

Apply any coating listed in Table 4 above, or any Miami-Dade approved coating

system.

Maximum Design

Pressure: -90 psf. (See General Limitation #7)



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Deck Type 1I: Wood, Non-Insulated

Deck Description: Min. 19/32" plywood (15/32" for re-roof) or wood plank

System Type E(12): Non-Insulated, Base sheet mechanically attached.

Deck: Decking is attached to spans spaced maximum 24" o.c. with #10 wood screws

spaced maximum 6" o.c.

All General and System Limitations apply.

Slip Sheet: One or more plies Sopra-G or Modified Sopra-G, loose-laid.

(Optional)

Base Sheet: Sopra-G, Modified Sopra-G, Sopra 4897 or Soprabase fastened to the deck as

described below:

Fastening: Simplex MAXX Cap Fasteners spaced 6" o.c. at the minimum 2" wide side laps

and 6" o.c. in two (2), equally spaced, staggered center rows

Ply Sheet: Sopra-G, Modified Sopra-G, Soprabase S, Sopra IV, Sopra VI,

(Optional) Elastophene HS 62, Elastophene Sanded, Colphene Sanded, Elastophene Sanded

2.2, Elastophene Sanded 3.0, Sopralene 180 Sanded 2.2, Colphene 180 Sanded, Sopralene 180 Sanded, Sopralene 250 Sanded, Elastophene PS*, Elastophene PS 3.0*, Sopralene 180 PS 2.2*, Colphene 180 PS*, Sopralene 180 PS* applied in

hot asphalt.

*Requires torch-applied Cap.

Membrane: (With Sopra 4897 or listed ply sheets) Elastophene Flam GR, Elastophene Flam

FR GR, Elastophene Flam LS FR GR, Elastophene Flam FR+ GR, Soprastar Flam, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 GR 3.5, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 180 Ultra FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 Ultra FR GR, Sopralene Flam 250 FR+ GR, So

Flam Antirock, Soprafix Cap FR-651, torch-applied.

or

Soprastar Sanded, Elastophene GR, Elastophene LS FR GR, Elastophene FR GR, Elastophene FR+ GR, Sopralene 180 FR GR, Colphene 180 FR GR, Sopralene 180 FR+ GR, Sopralene 250 FR GR, Colphene 250 FR GR, Sopralene 250 FR+ GR, Sopralene 250 TV

Alu Sanded applied in hot asphalt.

Surfacing: Surfacing is Optional on granular surfaced field cap membranes.

Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for

applicable fire classifications.

Apply any coating listed in Table 4 above, or any Miami-Dade approved coating

system.

Maximum Design

Pressure: -90 psf. (See General Limitation #7)



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Deck Type 1I: Wood, Non-Insulated

Deck Description: Min. 19/32" plywood (15/32" for re-roof) or wood plank

System Type E(13): Non-Insulated, Base sheet mechanically attached.

Deck: Decking is attached to spans spaced maximum 24" o.c. with #10 wood screws

spaced maximum 6" o.c.

All General and System Limitations apply.

Slip Sheet: One or more plies Sopra-G or Modified Sopra-G, loose-laid.

(Optional)

Base Sheet: Sopra-G, Modified Sopra-G, Sopra 4897 or Soprabase fastened to the deck as

described below:

Fastening: Simplex MAXX Cap Fasteners spaced 6" o.c. at the minimum 2" wide side laps

and 6" o.c. in two (2), equally spaced, staggered center rows

Ply Sheet: Elastophene HS 62, Elastophene Sanded, Colphene Sanded, Elastophene Sanded

2.2, Elastophene Sanded 3.0, Sopralene 180 Sanded 2.2, Colphene 180 Sanded,

Sopralene 180 Sanded, Sopralene 250 Sanded applied in hot asphalt.

Membrane: Soprastar Sanded, Elastophene GR, Elastophene LS FR GR, Elastophene FR GR,

Elastophene FR+ GR, Sopralene 180 FR GR, Colphene 180 FR GR, Sopralene 180 FR+ GR, Sopralene 180 Ultra FR GR, Sopralene 250 FR GR, Colphene 250 FR GR, Sopralene 250 FR+ GR, Sopralene 250 Ultra FR GR, Sopralest 50 TV Alu Sanded applied in Colply Adhesive, Colply Modified Adhesive or Colply EF

Adhesive.

Surfacing: Surfacing is Optional on granular surfaced field cap membranes.

Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for

applicable fire classifications.

Apply any coating listed in Table 4 above, or any Miami-Dade approved coating

system.

Maximum Design

Pressure: -90 psf. (See General Limitation #7)



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Deck Type 1I: Wood, Non-Insulated

Deck Description: Min. 19/32" plywood (15/32" for re-roof) or wood plank

System Type E(14): Non-Insulated, Base sheet mechanically attached.

Deck: Decking is attached to spans spaced maximum 24" o.c. with #10 wood screws

spaced maximum 6" o.c.

All General and System Limitations apply.

Slip Sheet: One or more plies Sopra-G or Modified Sopra-G, loose-laid.

(Optional)

Base Sheet: Soprabase fastened to the deck as described below:

Fastening: Simplex MAXX Cap Fasteners spaced 6" o.c. at the minimum 2" wide side laps

and 6" o.c. in two (2), equally spaced, staggered center rows

Ply Sheet: Elastophene HS 62, Elastophene Sanded, Colphene Sanded, Elastophene Sanded

(Optional) 2.2, Elastophene Sanded 3.0, Sopralene 180 Sanded 2.2, Colphene 180 Sanded,

Sopralene 180 Sanded, Sopralene 250 Sanded, Elastophene PS*, Elastophene PS 3.0*, Sopralene 180 PS 2.2*, Colphene 180 PS*, Sopralene 180 PS* in Colply

Adhesive, Colply Modified Adhesive or Colply EF Adhesive.

*Requires torch-applied Cap.

Membrane: Elastophene Flam GR, Elastophene Flam FR GR, Elastophene Flam LS FR GR,

Elastophene Flam FR+ GR, Soprastar Flam, Sopralene Flam 180 GR, Colphene

Flam 180 GR, Sopralene Flam 180 GR 3.5, Sopralene Flam 180 FR GR,

Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 180

Ultra FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 Ultra FR GR, Sopralene Flam

250 FR+ GR, Sopralast 50 TV Alu, Sopralene Flam Antirock, Soprafix Cap FR-

651, torch-applied.

Or

Soprastar Sanded, Elastophene GR, Elastophene LS FR GR, Elastophene FR GR, Elastophene FR+ GR, Sopralene 180 FR GR, Colphene 180 FR GR, Sopralene 180 FR+ GR, Sopralene 250 FR GR, Colphene 250 FR GR, Sopralene 250 FR GR, Sopralene 250 TV Alu Sanded applied in Colply Adhesive, Colply Modified Adhesive or Colply EF

Adhesive.

Surfacing: Surfacing is Optional on granular surfaced field cap membranes.

Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for

applicable fire classifications.

Apply any coating listed in Table 4 above, or any Miami-Dade approved coating

system.

Maximum Design

Pressure: -90 psf. (See General Limitation #7)



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Deck Type 1I: Wood, Non-Insulated

Deck Description: Min. 19/32" plywood (15/32" for re-roof) or wood plank

System Type E(15): Non-Insulated, Base sheet mechanically attached.

Deck: Decking is attached to spans spaced maximum 24" o.c. with #10 wood screws

spaced maximum 6" o.c.

All General and System Limitations apply.

Slip Sheet: One or more plies of approved ASTM D4601 applied loose laid to deck.

(Optional)

Base Sheet: Soprabase fastened to the deck as described below:

Fastening: Simplex MAXX Cap Fasteners spaced 6" o.c. at the minimum 2" wide side laps

and 6" o.c. in two (2), equally spaced, staggered center rows.

Primer: Elastocol Stick Zero to base sheet at 1.0 gal/square.

Ply Sheet: Elastophene Stick, Sopralene Stick, Colphene Stick, Elastophene Flam Stick*,

Sopralene Flam Stick*, self-adhered.

*Requires torch-applied Cap

Membrane: Soprastar Flam, Elastophene Flam GR, Elastophene Flam LS FR GR,

Elastophene Flam FR GR, Elastophene Flam FR+ GR, Soprafix Cap FR 651, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam Ultra FR GR, Sopralene Flam Antirock, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 FR+ GR, Sopralene Flam 250 Ultra FR GR, Soprale

Or

Soprastar Sanded, Elastophene GR, Elastophene LS FR GR, Elastophene FR GR, Elastophene FR+ GR, Sopralene 180 FR GR, Colphene 180 FR GR, Sopralene 180 FR+ GR, Sopralene 250 FR GR, Colphene 250 FR GR, Sopralene 250 FR+ GR, Sopralene 250 TV

ALU Sanded applied in hot asphalt.

Surfacing: Surfacing is Optional on granular surfaced field cap membranes.

Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for

applicable fire classifications.

Apply any coating listed in Table 4 above, or any Miami-Dade approved coating

system.

Maximum Design

Pressure: -90.0 psf. (See General Limitation #7)



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Deck Type 1I: Wood, Non-Insulated

Deck Description: Min. 19/32" plywood or wood plank

System Type E(16): Base sheet mechanically fastened to substrate.

Deck: Decking is attached to spans spaced maximum 24" o.c. with #10 wood screws

spaced maximum 6" o.c.

All General and System Limitations apply.

Slip Sheet: One or more plies of approved ASTM D4601 applied loose laid to deck.

(Optional)

(Optional)

Primer: Elastocol 500, Elastocol Stick, Elastocol Stick Zero applied at a rate of 1 gal./sq.,

to top surface of any base or ply sheet prior to application of next layer

Base Sheet: One ply of Soprafix, Soprafix Base 622, Soprafix [S]*, Soprafix Base 612*,

Soprafix [F]*, Soprafix Base 613*, Soprafix [X]*, Soprafix Base 614*, Soprafix-

e or Soprafix Base 641, fastened to the deck as described below:

*Requires torch-applied ply or cap membrane.

Fastening: Attach base sheet using Soprafix MBB-R with Soprema #15 fasteners spaced 6"

o.c. in the minimum 5" wide lap.

Ply Sheet: Sopralene Flam 180*, Colphene Flam 180*, Sopralene 180 SP 3.0, Sopralene 180

SP 3.5, Colphene 180 SP 3.5, Sopralene Flam 250*, Sopralene 250 SP, Colvent

180 TG, Colvent Flam 180 TG* torch-applied.

Or

Elastophene 180 PS*, Colphene 180 PS*, Sopralene 180 PS 2.2*, Sopralene 180

PS* adhered in hot asphalt at 25 lbs./sq.

*Requires torch-applied cap membrane.

Membrane: Soprastar Flam, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene

Flam 180 GR 3.5, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 180 Ultra FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 Ultra FR GR, Sopralene Flam 250 FR+ GR, Sopralest 50 TV

Alu, Sopralene Flam Antirock, Soprafix Cap FR-651, torch-applied.

Or

Elastophene GR, Elastophene FR GR, Elastophene LS FR GR, Sopralene 180 FR GR, Colphene 180 FR GR, Sopralene 180 FR+ GR, Sopralene 180 Ultra FR GR, Sopralene 250 FR GR, Colphene 250 FR GR, Sopralene 250 Ultra FR GR, Sopralene 250 FR+ GR, Sopralene 250 TV Alu Sanded or Soprastar Sanded adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or applied in COLPLY EF Adhesive, COLPLY

Adhesive, COLPLY Modified Adhesive at 1.5 – 2.0 gallons/square. The 3" wide

side laps are adhered with the same adhesive or torch-applied.



NOA No.: 15-0709.17 Expiration Date: 03/01/21 Approval Date: 04/07/16 Page 55 of 63 **Surfacing:** Surfacing is Optional on granular surfaced field cap membranes.

Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for

applicable fire classifications.

Apply any coating listed in Table 4 above, or any Miami-Dade approved coating

system.

Maximum Design

Pressure: -90 psf. (See General Limitation #7)



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Deck Type 1I: Wood, Non-Insulated

Deck Description: Min. 19/32" plywood (15/32" for re-roof) or wood plank

System Type E(17): Non-Insulated, Base sheet mechanically attached.

Deck: Decking is attached to spans spaced maximum 24" o.c. with #10 wood screws

spaced maximum 4" o.c.

All General and System Limitations apply.

Slip Sheet: One or more plies Sopra-G or Modified Sopra-G, loose-laid.

(Optional)

Base Sheet: Sopra 4897 or Soprabase TG* fastened to the deck as described below:

*Requires torch-applied ply or cap.

Fastening: Simplex MAXX Cap Fasteners spaced 6" o.c. at the minimum 2" wide side laps

and 6" o.c. in three (3), equally spaced, staggered center rows

Ply Sheet: Elastophene Flam HS*, Elastophene Flam 2.2*, Elastophene Flam*, Sopralene

(Optional) Flam 180*, Colphene Flam 180*, Sopralene Flam 250*, Elastophene SP 2.2,

Colphene SP 2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Sopralene 250 SP, torch-applied

*Requires torch-applied Cap

Membrane: Elastophene Flam GR, Elastophene Flam FR GR, Elastophene Flam LS FR GR,

Elastophene Flam FR+ GR, Soprastar Flam, Sopralene Flam 180 GR, Colphene

Flam 180 GR, Sopralene Flam 180 GR 3.5, Sopralene Flam 180 FR GR,

Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 180

Ultra FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR,

Colphene Flam 250 FR GR, Sopralene Flam 250 Ultra FR GR, Sopralene Flam 250 FR+ GR, Sopralast 50 TV Alu, Sopralene Flam Antirock, Soprafix Cap FR-

651, torch-applied.

or

Soprastar Sanded, Elastophene GR, Elastophene LS FR GR, Elastophene FR GR, Elastophene FR+ GR, Sopralene 180 FR GR, Colphene 180 FR GR, Sopralene 180 FR+ GR, Sopralene 250 FR GR, Colphene 250 FR GR, Sopralene 250 FR+ GR, Sopralene 250 TV

Alu Sanded applied in hot asphalt.

Surfacing: Surfacing is Optional on granular surfaced field cap membranes.

Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for

applicable fire classifications.

Apply any coating listed in Table 4 above, or any Miami-Dade approved coating

system.

Maximum Design

Pressure: -105 psf. (See General Limitation #7)



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Deck Type 1I: Wood, Non-Insulated

Deck Description: Min. 19/32" plywood (15/32" for re-roof) or wood plank

System Type E(18): Non-Insulated, Base sheet mechanically attached.

Deck: Decking is attached to spans spaced maximum 24" o.c. with #10 wood screws

spaced maximum 4" o.c.

All General and System Limitations apply.

Slip Sheet: One or more plies Sopra-G or Modified Sopra-G, loose-laid.

(Optional)

Base Sheet: Sopra 4897 or Soprabase TG fastened to the deck as described below:

Fastening: Simplex MAXX Cap Fasteners spaced 6" o.c. at the minimum 2" wide side laps

and 6" o.c. in three (3), equally spaced, staggered center rows

Ply Sheet: Elastophene SP 2.2, Colphene SP 2.2, Elastophene SP 3.0, Colphene SP 3.0,

Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Sopralene

250 SP, torch-applied

Membrane: Elastophene FR GR, Elastophene GR, Elastophene LS FR GR, Elastophene FR+

GR, Sopralene 180 FR GR, Colphene 180 FR GR, Sopralene 180 Ultra FR GR, Sopralene 180 FR+ GR, Sopralene 250 FR GR, Colphene 250 FR GR, Sopralene 250 Ultra FR GR, Sopralene 250 FR+ GR, Sopralest 50 TV Alu Sanded or Soprastar Sanded applied Colply Adhesive, Colply Modified Adhesive or Colply

EF Adhesive.

Surfacing: Surfacing is Optional on granular surfaced field cap membranes.

Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for

applicable fire classifications.

Apply any coating listed in Table 4 above, or any Miami-Dade approved coating

system.

Maximum Design

Pressure: -105 psf. (See General Limitation #7)

MIAMI-DADE COUNTY
APPROVED

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SBS Membrane Type:

Deck Type 1I: Wood, Non-Insulated

Deck Description: Min. 19/32" plywood (15/32" for re-roof) or wood plank

System Type E(19): Non-Insulated, Base sheet mechanically attached.

Deck: Decking is attached to spans spaced maximum 24" o.c. with #10 wood screws

spaced maximum 6" o.c.

All General and System Limitations apply.

Slip Sheet: One or more plies Sopra-G or Modified Sopra-G, loose-laid.

(Optional)

Base Sheet: Sopra-G, Modified Sopra-G, Sopra 4897 or Soprabase fastened to the deck as

described below:

Simplex MAXX Cap Fasteners spaced 6" o.c. at the minimum 2" wide side laps **Fastening:**

and 6" o.c. in three (3), equally spaced, staggered center rows

Ply Sheet: Sopra-G, Modified Sopra-G, Soprabase, Soprabase S, Sopra IV, Sopra VI,

Elastophene HS 62, Elastophene Sanded, Colphene Sanded, Elastophene Sanded (Optional)

2.2, Elastophene Sanded 3.0, Sopralene 180 Sanded 2.2, Colphene 180 Sanded, Sopralene 180 Sanded, Sopralene 250 Sanded, Elastophene PS*, Elastophene PS 3.0*, Sopralene 180 PS 2.2*, Colphene 180 PS*, Sopralene 180 PS* applied in

hot asphalt.

*Requires torch-applied Cap.

Membrane: (With Sopra 4897 or listed ply sheets) Elastophene Flam GR, Elastophene Flam

> FR GR, Elastophene Flam LS FR GR, Elastophene Flam FR+ GR, Soprastar Flam, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 GR 3.5, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 180 Ultra FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 Ultra FR GR, Sopralene Flam 250 FR+ GR, Sopralast 50 TV Alu, Sopralene

Flam Antirock, Soprafix Cap FR-651, torch-applied.

Soprastar Sanded, Elastophene GR, Elastophene LS FR GR, Elastophene FR GR, Elastophene FR+ GR, Sopralene 180 FR GR, Colphene 180 FR GR, Sopralene 180 FR+ GR, Sopralene 180 Ultra FR GR, Sopralene 250 FR GR, Colphene 250 FR GR, Sopralene 250 FR+ GR, Sopralene 250 Ultra FR GR, Sopralast 50 TV

Alu Sanded applied in hot asphalt.

Surfacing: Surfacing is Optional on granular surfaced field cap membranes.

> Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for

applicable fire classifications.

Apply any coating listed in Table 4 above, or any Miami-Dade approved coating

system.

Maximum Design

-105 psf. (See General Limitation #7) **Pressure:**



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Deck Type 1I: Wood, Non-Insulated

Deck Description: Min. 19/32" plywood (15/32" for re-roof) or wood plank

System Type E(20): Non-Insulated, Base sheet mechanically attached.

Deck: Decking is attached to spans spaced maximum 24" o.c. with #10 wood screws

spaced maximum 4" o.c.

All General and System Limitations apply.

Slip Sheet: One or more plies Sopra-G or Modified Sopra-G, loose-laid.

(Optional)

Base Sheet: Sopra-G, Modified Sopra-G, Sopra 4897 or Soprabase fastened to the deck as

described below:

Fastening: Simplex MAXX Cap Fasteners spaced 6" o.c. at the minimum 2" wide side laps

and 6" o.c. in three (3), equally spaced, staggered center rows

Ply Sheet: Elastophene HS 62, Elastophene Sanded, Colphene Sanded, Elastophene Sanded

2.2, Elastophene Sanded 3.0, Sopralene 180 Sanded 2.2, Colphene 180 Sanded,

Sopralene 180 Sanded, Sopralene 250 Sanded applied in hot asphalt.

Membrane: Soprastar Sanded, Elastophene GR, Elastophene LS FR GR, Elastophene FR GR,

Elastophene FR+ GR, Sopralene 180 FR GR, Colphene 180 FR GR, Sopralene 180 FR+ GR, Sopralene 180 Ultra FR GR, Sopralene 250 FR GR, Colphene 250 FR GR, Sopralene 250 FR+ GR, Sopralene 250 Ultra FR GR, Sopralast 50 TV Alu Sanded applied in Colply Adhesive, Colply Modified Adhesive or Colply EF

Adhesive.

Surfacing: Surfacing is Optional on granular surfaced field cap membranes.

Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for

applicable fire classifications.

Apply any coating listed in Table 4 above, or any Miami-Dade approved coating

system.

Maximum Design

Pressure: -105 psf. (See General Limitation #7)



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Deck Type 1I: Wood, Non-Insulated

Deck Description: Min. 19/32" plywood (15/32" for re-roof) or wood plank

System Type E(21): Non-Insulated, Base sheet mechanically attached.

Deck: Decking is attached to spans spaced maximum 24" o.c. with #10 wood screws

spaced maximum 4" o.c.

All General and System Limitations apply.

Slip Sheet: One or more plies Sopra-G or Modified Sopra-G, loose-laid.

(Optional)

Base Sheet: Soprabase fastened to the deck as described below:

Fastening: Simplex MAXX Cap Fasteners spaced 6" o.c. at the minimum 2" wide side laps

and 6" o.c. in three (3), equally spaced, staggered center rows

Ply Sheet: Elastophene HS 62, Elastophene Sanded, Colphene Sanded, Elastophene Sanded

(Optional) 2.2, Elastophene Sanded 3.0, Sopralene 180 Sanded 2.2, Colphene 180 Sanded,

Sopralene 180 Sanded, Sopralene 250 Sanded, Elastophene PS*, Elastophene PS 3.0*, Sopralene 180 PS 2.2*, Colphene 180 PS*, Sopralene 180 PS* in Colply

Adhesive, Colply Modified Adhesive or Colply EF Adhesive.

*Requires torch-applied Cap.

Membrane: Soprastar Flam, Elastophene Flam GR, Elastophene Flam LS FR GR,

Elastophene Flam FR GR, Elastophene Flam FR+ GR, Soprafix Cap FR-651, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam Ultra FR GR, Sopralene Flam Antirock, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 FR+ GR, Sopralene Fl

Sopralene Flam 250 Ultra FR GR, Sopralast 50 TV Alu, torch-applied

or

Soprastar Sanded, Elastophene GR, Elastophene LS FR GR, Elastophene FR GR, Elastophene FR+ GR, Sopralene 180 FR GR, Colphene 180 FR GR, Sopralene 180 FR+ GR, Sopralene 250 FR GR, Colphene 250 FR GR, Sopralene 250 FR GR, Sopralene 250 TV Alu Sanded applied in Colply Adhesive, Colply Modified Adhesive or Colply EF

Adhesive.

Surfacing: Surfacing is Optional on granular surfaced field cap membranes.

Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for

applicable fire classifications.

Apply any coating listed in Table 4 above, or any Miami-Dade approved coating

system.

Maximum Design

Pressure: -105 psf. (See General Limitation #7)



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Deck Type 1I: Wood, Non-Insulated

Deck Description: Min. 19/32" plywood (15/32" for re-roof) or wood plank

System Type E(22): Non-Insulated, Base sheet mechanically attached.

Deck: Decking is attached to spans spaced maximum 24" o.c. with #10 wood screws

spaced maximum 4" o.c.

All General and System Limitations apply.

Slip Sheet: One or more plies of approved ASTM D4601 applied loose laid to deck.

(Optional)

Base Sheet: Soprabase fastened to the deck as described below:

Fastening: Simplex MAXX Cap Fasteners spaced 6" o.c. at the minimum 2" wide side laps

and 6" o.c. in three (3), equally spaced, staggered center rows.

Primer: Elastocol Stick Zero to base sheet at 1.0 gal/square.

Ply Sheet: Elastophene Stick, Sopralene Stick, Colphene Stick, Elastophene Flam Stick*,

Sopralene Flam Stick*, self-adhered.

*Requires torch-applied Cap

Membrane: Soprastar Flam, Elastophene Flam GR, Elastophene Flam LS FR GR,

Elastophene Flam FR GR, Elastophene Flam FR+ GR, Soprafix Cap FR 651, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam Ultra FR GR, Sopralene Flam Antirock, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 FR+ GR, Sopralene Flam 250 Ultra FR GR, Soprale

Or

Soprastar Sanded, Elastophene GR, Elastophene LS FR GR, Elastophene FR GR, Elastophene FR+ GR, Sopralene 180 FR GR, Colphene 180 FR GR, Sopralene 180 FR+ GR, Sopralene 250 FR GR, Colphene 250 FR GR, Sopralene 250 FR GR, Sopralene 250 TV

ALU Sanded applied in hot asphalt.

Surfacing: Surfacing is Optional on granular surfaced field cap membranes.

Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for

applicable fire classifications.

Apply any coating listed in Table 4 above, or any Miami-Dade approved coating

system.

Maximum Design

Pressure: -105.0 psf. (See General Limitation #7)



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WOOD DECK SYSTEM LIMITATIONS:

1. A slip sheet is required with Ply 4 and Ply 6 when used as a mechanically fastened base or anchor sheet.

GENERAL LIMITATIONS:

- 1. Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
- 2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
- 3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
- 4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each side lap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq. Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.
- 5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. Insulation attachment shall not be acceptable.
- 6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
- 7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant (When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)
- 8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform to Roofing Application Standard RAS 111 and applicable wind load requirements.
- 9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). (When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)
- 10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE

MIAMI-DADE COUNTY
APPROVED

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